

HNEAN61	507302	3686	3 - 173	13438	Lys-15 to Thr-26.	H0179: 1 and S0002: 1.	
HNEAN85	524222	3687	148 - 300	13439	Gln-26 to Gln-42.	H0305: 2, H0306: 1, H0402: 1, H0580: 1, H0179: 1, S0052: 1, S0428: 1, S0053: 1, S0031: 1 and H0444: 1.	
HNEBI66	529168	3688	3 - 263	13440	Gly-4 to Gly-11.	H0179: 1 and H0087: 1.	
HNEBJ08	958742	3689	192 - 410	13441		AR051: 76, AR054: 73, AR050: 42, S0218: 1, H0179: 1 and S0428: 1.	
HNEBJ35	529576	3690	60 - 182	13442	Ile-3 to Gly-8.	H0179: 1 and H0543: 1.	
HNEBJ48	919274	3691	380 - 529	13443	Glu-1 to Arg-11, Pro-13 to Gly-22.	H0179: 1 and H0445: 1.	
HNEBM07	954173	3692	1 - 171	13444	Gly-1 to Pro-9.	H0075: 1 and H0179: 1.	
HNEBY19	527894	3693	142 - 294	13445		H0179: 2	
HNEBY26	527891	3694	62 - 331	13446		H0179: 2	
HNEBY30	523571	3695	99 - 254	13447	Ile-6 to Gln-24, Thr-31 to Asp-52.	H0179: 2	
HNEBY32	527889	3696	178 - 339	13448		H0179: 2	
HNEBY34	507211	3697	2 - 316	13449		H0179: 2	
HNEBY44	773793	3698	72 - 227	13450		H0179: 2	
HNEBY46	527887	3699	252 - 386	13451	Gln-3 to Ser-9, Cys-18 to Trp-27, Pro-34 to Pro-39.	H0179: 2	
HNEBY48	527895	3700	68 - 322	13452		H0179: 2	
HNEBY71	527883	3701	1 - 258	13453	Gly-1 to Ser-9, Ser-18 to Glu-23.	H0179: 2	
HNECD65	861062	3702	27 - 308	13454	Asp-1 to Gly-7.	S0114: 1 and H0179: 1.	
HNECE07	954094	3703	84 - 212	13455		L0774: 2, H0402: 1 and H0179: 1.	
HNECE14	927590	3704	2 - 106	13456		H0179: 1 and H0264: 1.	
HNECF59	507208	3705	1 - 114	13457	Lys-10 to Val-17.	H0179: 2	
HNECF76	506532	3706	52 - 288	13458		H0179: 1 and H0063: 1.	
HNECI57	529873	3707	1 - 168	13459		H0179: 1 and H0271: 1.	
HNECK47	720588	3708	13 - 174	13460		H0486: 1 and H0179: 1.	

HNECK66	932501	3709	1 - 228	13461	Arg-16 to Val-24, Pro-27 to Arg-34, Gln-37 to Leu-42.	S0114: 1 and H0179: 1.		
HNECK67	527100	3710	270 - 410	13462		S0052: 2, H0179: 1 and L0375: 1.		
HNECK83	935045	3711	18 - 332	13463	Ser-16 to Gly-22, Arg-37 to His-45, Val-56 to Arg-64.	H0585: 10, H0141: 2, H0556: 1, H0656: 1 and H0179: 1.		
HNECL71	527810	3712	65 - 235	13464		H0179: 2		
HNECM64	861031	3713	2 - 274	13465	Ala-1 to Ser-8.	H0179: 2		
HNECO69	861068	3714	24 - 137	13466		H0179: 2		
HNECR93	529868	3715	3 - 299	13467		H0271: 2 and H0179: 1.		
HNECS77	527511	3716	326 - 490	13468	Trp-37 to Glu-43.	H0436: 2, S0114: 1 and H0179: 1.		
HNECT70	958356	3717	2 - 193	13469		H0179: 1 and S0428: 1.		
HNECV31	466977	3718	53 - 304	13470	Pro-10 to Glu-15.	H0179: 2 and H0521: 1.		
HNECV66	575633	3719	151 - 336	13471		H0179: 2 and H0271: 1.		
HNECW09	968378	3720	61 - 189	13472		H0179: 2		
HNECW20	527508	3721	200 - 505	13473		H0179: 2		
HNECW35	855430	3722	1 - 423	13474	Pro-6 to Met-11.	H0179: 3, S0114: 1 and H0581: 1.		
HNECX77	507305	3723	88 - 363	13475	Val-21 to Pro-39, Thr-57 to Ser-64, Pro-83 to Gln-92.	H0179: 1 and H0271: 1.	19q13.1	164731, 172400, 172400, 180901, 180901, 221770, 248600, 600918, 602716
HNEDD27	527589	3724	189 - 389	13476		H0179: 2		
HNEDD80	507186	3725	49 - 336	13477		H0179: 2		
HNEDD90	789187	3726	307 - 173	13478	Asp-38 to Met-44.	H0255: 1 and H0179: 1.		
HNEDE48	721895	3727	78 - 263	13479		H0580: 1 and H0179: 1.		
HNEDE59	527060	3728	10 - 276	13480	Ser-5 to Phe-18, Asp-28 to Glu-43.	H0179: 3		
HNEDF71	572390	3729	33 - 134	13481		H0421: 1 and H0179: 1.		
HNEDEG11	967643	3730	94 - 219	13482	Ser-5 to Gly-19.	H0265: 1 and H0179: 1.		
HNEDEG35	790570	3731	27 - 233	13483		H0421: 1 and H0179: 1.		

HNEDG56	746708	3732	163 - 339	13484	Leu-13 to Gly-20.	H0179: 2	
HNEDH54	527505	3733	56 - 289	13485	Cys-18 to Cys-24.	H0179: 1 and H0271: 1.	
HNEDH96	697747	3734	436 - 573	13486		H0179: 1 and H0444: 1.	
HNEDI80	573138	3735	117 - 365	13487	Arg-40 to Thr-47.	H0179: 2	
HNEDK04	923910	3736	1 - 153	13488		H0179: 2 and H0271: 1.	
HNEDK16	702570	3737	3 - 446	13489	His-1 to Trp-8, Ala-31 to Leu-37, Pro-39 to Pro-50, Ser-54 to Ser-73.	AR051: 13, AR054: 10, AR050: 2 H0179: 2 and H0271: 1.	
HNEDK22	527503	3738	192 - 377	13490		S0114: 1 and H0179: 1.	
HNEDK74	765880	3739	84 - 203	13491		H0657: 1, H0179: 1 and H0264: 1.	
HNEDN42	527499	3740	1 - 192	13492	Gly-27 to Lys-32, Ser-45 to Pro-53.	H0179: 2	
HNEDO95	573136	3741	57 - 233	13493	Pro-34 to Pro-45.	H0179: 2	
HNEDQ51	527816	3742	32 - 196	13494		H0179: 2	
HNEDQ68	586485	3743	764 - 925	13495		AR050: 7, AR054: 3, AR051: 1 H0542: 2, H0318: 1, H0179: 1 and L0527: 1.	
HNEDR48	683470	3744	35 - 166	13496	Gln-36 to Gly-41.	H0402: 1 and H0179: 1.	
HNEDS03	925091	3745	1 - 126	13497	Leu-7 to Gly-12.	H0179: 2	
HNEDS18	954586	3746	153 - 4	13498	Arg-1 to Arg-7.	H0179: 3	
HNEDS29	703032	3747	1 - 147	13499		H0580: 1 and H0179: 1.	
HNEDU01	909832	3748	156 - 416	13500		H0179: 1 and S0002: 1.	
HNEEA41	868102	3749	1 - 189	13501		H0265: 1, H0650: 1 and H0179: 1.	
HNEEB62	573185	3750	149 - 295	13502	Met-17 to Trp-26.	H0179: 2	
HNEEB84	781940	3751	1 - 225	13503		H0179: 1 and H0521: 1.	
HNEEC81	844318	3752	108 - 320	13504		H0179: 2	
HNEDD12	893698	3753	403 - 531	13505	Ser-34 to Gln-43.	H0179: 1 and S0428: 1.	
HNEDD48	668747	3754	329 - 577	13506	Ser-14 to Ile-21.	L0748: 2, H0556: 1, H0457: 1, H0179: 1 and L0455: 1.	
HNFAA13	667712	3755	203 - 472	13507	Glu-6 to Gly-24, Cys-35 to His-46.	H0271: 1 and H0436: 1.	

HNFAA80	781578	3756	100 - 288	13508	Phe-11 to Gln-20.	H0318: 1, H0271: 1 and H0444: 1.	
HNFAA83	530295	3757	34 - 135	13509	His-1 to Gln-7.	H0271: 2	
HNFAAD95	784714	3758	374 - 739	13510		L0746: 3, H0436: 2, L0745: 2 and H0271: 1.	
HNFAE07	861069	3759	2 - 136	13511		H0179: 1 and H0271: 1.	
HNFAF40	861021	3760	2 - 208	13512	Pro-19 to Leu-27.	H0271: 2	
HNFAAG69	530349	3761	2 - 175	13513	Pro-4 to Arg-16, Tyr-36 to Asn-42.	H0271: 2	
HNFAH45	662053	3762	33 - 308	13514	Lys-1 to Val-7.	H0271: 2	
HNFB551	530064	3763	96 - 218	13515	Ser-32 to Pro-39.	H0271: 2	
HNFBT11	967784	3764	8 - 232	13516		H0271: 2	
HNFBU53	861015	3765	100 - 360	13517		H0255: 1 and H0271: 1.	
HNFCI32	699706	3766	3 - 137	13518		H0271: 1 and S0052: 1.	
HNFCI41	861014	3767	271 - 546	13519	Glu-2 to Pro-9.	S0474: 1 and H0271: 1.	
HNFCI77	761390	3768	171 - 440	13520	Asn-10 to His-16.	H0271: 1 and H0444: 1.	
HNFCI68	585328	3769	2 - 121	13521	Pro-1 to Leu-16.	H0271: 2	
HNFC504	927836	3770	64 - 297	13522		L0766: 3, H0271: 1, S0052: 1, L0779: 1 and L0731: 1.	
HNFC27	529964	3771	3 - 185	13523	Ala-6 to Lys-11.	H0271: 2	
HNFC267	927833	3772	119 - 229	13524		H0271: 2	
HNFCW14	955293	3773	2 - 193	13525		H0179: 1, H0271: 1 and S0002: 1.	
HNFCY33	861005	3774	168 - 401	13526		H0486: 1 and H0271: 1.	
HNFC21	529867	3775	166 - 312	13527		H0271: 2	
HNFC91	496241	3776	7 - 294	13528	Gly-61 to Gly-68.	H0271: 1 and S0053: 1.	
HNFDJ17	960239	3777	1 - 201	13529		H0271: 2 and L0600: 2.	
HNFDK40	854017	3778	315 - 488	13530		H0179: 1, H0271: 1 and H0444: 1.	
HNFDN04	537317	3779	232 - 426	13531	His-42 to Asn-49.	L0740: 2, H0271: 1 and H0264: 1.	
HNFDN41	712571	3780	212 - 388	13532	Leu-10 to Asp-15, Glu-27 to Lys-33.	H0271: 3 and H0264: 1.	
HNFDN89	787085	3781	1 - 186	13533		H0271: 1 and H0264: 1.	
HNFD081	537341	3782	119 - 244	13534		H0271: 2	



HNFD084	575347	3783	126 - 437	13535			H0271: 2	
HNFD09	719215	3784	2 - 265	13536			H0271: 1 and S0052: 1.	
HNFD35	527500	3785	72 - 221	13537			H0179: 1, H0271: 1 and L0667: 1.	
HNFD83	537343	3786	93 - 278	13538			H0271: 2	
HNFDV41	537337	3787	1 - 201	13539		Gly-1 to Val-9, Gln-19 to Gln-28, Leu-33 to Gly-38, His-46 to Arg-56.	H0271: 2	
HNFD22	537334	3788	1 - 93	13540		Pro-13 to Ser-18.	H0271: 2	
HNFD43	583458	3789	13 - 336	13541		Arg-54 to Pro-64.	L0794: 2, L0805: 2, L0789: 2, H0271: 1, L0803: 1, L0774: 1, L0776: 1, S0053: 1 and L0589: 1.	
	583459	9579	581 - 441	19331		Arg-21 to Arg-30.		
HNFEF43	424792	3790	188 - 343	13542		Leu-13 to Gly-18, Glu-29 to Trp-34.	H0271: 3	
HNFEF83	850982	3791	190 - 516	13543		Pro-1 to Ala-7, Leu-26 to Ser-35.	AR051: 12, AR054: 1, AR050: 1 H0580: 3, H0254: 2, H0521: 2, H0656: 1, H0457: 1, H0271: 1 and H0488: 1.	
HNFEF95	971171	3792	227 - 469	13544		Lys-19 to Tyr-29, Ser-56 to Val-67.	H0271: 1 and S0052: 1.	
HNFEF09	526641	3793	154 - 261	13545			H0179: 1 and H0271: 1.	
HNFEF31	934595	3794	242 - 346	13546			H0271: 1, L0766: 1 and H0522: 1.	
HNFEH12	825406	3795	1 - 147	13547		Asp-29 to Cys-36.	H0271: 2	
HNFEH12	518245	3796	19 - 108	13548		Ala-14 to Ser-29.	H0271: 2	
HNFEK33	957396	3797	1 - 267	13549			H0637: 1 and H0271: 1.	
	971651	9580	911 - 759	19332		His-41 to Leu-51.		
HNFEW76	860967	3798	136 - 375	13550			S0052: 3, H0271: 1 and H0521: 1.	
HNFEW86	537336	3799	91 - 243	13551			H0271: 2	
HNFEW20	669916	3800	15 - 389	13552		Ser-2 to Glu-10, Gly-12 to Gly-17.	H0271: 1 and S0053: 1.	

HNFE061	530355	3801	2 - 148	13553			H0271: 2	
HNFER89	787086	3802	152 - 370	13554	Gly-9 to Ser-28.		H0271: 1 and S0428: 1.	
HNFE544	860920	3803	2 - 274	13555	Pro-42 to Asp-47.		H0271: 2	
HNFEU62	574398	3804	1 - 87	13556			H0271: 2	
HNFEV41	575549	3805	1 - 87	13557			H0271: 2, L0768: 1 and L0794: 1.	
HNFEV66	575552	3806	1 - 111	13558	Gly-6 to Arg-11.		H0271: 2	
HNFFB21	671263	3807	134 - 439	13559			H0271: 1 and S0144: 1.	
HNFFC21	574693	3808	281 - 415	13560	Arg-4 to Ala-14.		H0271: 2 and H0556: 1.	
HNFFD88	577422	3809	59 - 220	13561	Asp-11 to Glu-17, Lys-24 to Gly-32.		H0271: 1 and H0416: 1.	
HNFF81	574678	3810	2 - 67	13562			H0271: 2	
HNFFG79	781693	3811	1 - 192	13563	Lys-12 to Val-17.		H0271: 2	
HNFFH03	921923	3812	45 - 185	13564	Gly-7 to Glu-16, Asp-34 to Glu-39.		L0439: 4, H0402: 1, H0271: 1, L0438: 1 and H0444: 1.	
HNFFH04	574679	3813	10 - 174	13565	Lys-14 to Asp-24.		H0271: 2 and H0486: 1.	
HNFFJ48	860311	3814	2 - 238	13566			H0271: 1 and S0428: 1.	
HNFFK15	920748	3815	29 - 202	13567			H0271: 2	
HNFFK36	529978	3816	3 - 239	13568			H0271: 2	
HNFFK61	740644	3817	118 - 315	13569	Ala-1 to Lys-8, Gly-32 to Gly-37.		H0271: 3 and L0766: 1.	
HNFFM25	705856	3818	481 - 738	13570	Glu-6 to Val-14.		H0271: 2 and L0596: 1.	6
HNFFO61	742049	3819	20 - 343	13571			H0581: 1 and H0271: 1.	
HNFFO76	727306	3820	60 - 200	13572	Glu-3 to Pro-15, Leu-19 to Ser-26.		H0271: 1 and S0002: 1.	
HNFFR05	860851	3821	137 - 397	13573	Asp-38 to Arg-54.		H0271: 2	
HNFFR46	574618	3822	1 - 162	13574			H0271: 2	
HNFFS14	558192	3823	69 - 236	13575			H0271: 3	
HNFFS23	574677	3824	102 - 233	13576			H0271: 2	
HNFFS46	574669	3825	41 - 169	13577			H0271: 2	
HNFFS96	860904	3826	1 - 102	13578	Ser-14 to Gly-21.		H0271: 2	
HNFFT30	574616	3827	3 - 242	13579			H0271: 2	
HNFFT62	574623	3828	189 - 404	13580			H0271: 2	
HNFFT71	574617	3829	2 - 187	13581	Ala-1 to Arg-6.		H0271: 2	
HNFFT83	506711	3830	2 - 424	13582	Val-31 to Tyr-66,		H0271: 2	

HNFFV05	932364	3831					Gly-68 to Leu-73.				H0271: 3	
HNFFV66	574153	3832		112 - 264	13583						H0271: 2	
HNFFV73	574143	3833		200 - 322	13584		Met-11 to Val-16.				H0271: 2	
HNFFX21	574217	3834		94 - 267	13585						H0402: 1 and H0271: 1.	
HNFFX55	574218	3835		190 - 321	13586		Ser-1 to Asp-11, Leu-13 to Gly-25.				H0271: 2	
HNFFX79	574152	3836		195 - 461	13587		Asn-1 to Trp-7, Ala-14 to Pro-19, Val-30 to Ser-35.				H0271: 2	
HNFFZ53	526845	3837		1 - 219	13588						H0271: 2	
HNFFZ89	913701	3838		75 - 245	13589						H0271: 3	
HNFFZ91	860897	3839		256 - 534	13590		Lys-1 to Glu-7, Asn-9 to Phe-14, Asn-71 to Ile-80.				H0271: 1, H0416: 1, L0758: 1 and H0543: 1.	
HNFGB37	577342	3840		59 - 235	13591		Lys-1 to Ile-13, Ser-21 to Arg-27.				AR050: 34, AR051: 30, AR054: 28	
HNFGC17	860899	3841			13592						H0179: 1, H0271: 1, S0428: 1 and H0543: 1.	
HNFGC46	967538	3842		2 - 100	13593		Val-3 to Ser-13.				H0271: 1 and H0416: 1.	
HNFGC53	860900	3843		23 - 361	13594		Leu-35 to Ile-44, Tyr-57 to His-65, Ala-67 to Asn-72.				H0179: 1, H0271: 1, H0264: 1 and S0052: 1.	
HNFGC57	782183	3844			13595						H0271: 2	
HNFGC64	851981	3845		37 - 189	13596		Gly-40 to Glu-45.				H0271: 2 and L0749: 1.	
HNFGC66	781720	3846		2 - 241	13597		Asn-20 to Asp-26, Asn-34 to Ser-41.				H0271: 2, H0265: 1 and H0556: 1.	
HNFGC68	684992	3847		249 - 434	13598						H0486: 1 and H0271: 1.	
HNFGC73	526843	3848		96 - 350	13599		Glu-8 to Gly-17.				H0179: 1 and H0271: 1.	
HNFGH24	524419	3849		1 - 129	13600						H0271: 2 and L0581: 1.	
HNFGH71	954601	3850		3 - 140	13601						H0271: 2, H0581: 1 and H0543: 1.	
HNFGI01	921431	3851		3 - 140	13602						H0271: 1 and H0187: 1.	
HNFGI49	909707	3852		178 - 324	13603						H0179: 1 and H0271: 1.	
				230 - 379	13604		Gln-6 to Leu-23.				H0271: 2, L0761: 1, L0752: 1, L0755: 1 and L0596: 1.	
				2 - 481	13605		Arg-29 to Arg-34.				H0271: 2	

HNFGI84	783204	3853	2 - 130	13605			H0271: 2		
HNFGI93	526534	3854	2 - 199	13606	Glu-3 to Cys-21.		H0271: 2		
HNFGK28	574599	3855	158 - 334	13607	Glu-1 to Asn-10, Asn-29 to Lys-34, Asn-43 to Gly-48.		H0271: 2		
HNFGK29	574593	3856	41 - 235	13608			H0271: 2		
HNFGK39	574592	3857	1 - 237	13609	Ser-1 to Phe-6, Pro-22 to Arg-27, Glu-31 to Glu-36, Ser-42 to Arg-48.		H0271: 2		
HNFGI31	420241	3858	23 - 445	13610			H0402: 1 and H0271: 1.		
HNFGI94	709264	3859	1 - 150	13611	His-6 to Arg-12.		H0271: 2		
HNFGM40	524398	3860	127 - 357	13612	Pro-5 to Cys-11, Ser-25 to Ala-31, Pro-39 to Lys-44.		H0271: 2		
HNFGM61	750800	3861	3 - 170	13613	Ala-2 to Trp-7, Thr-10 to Leu-26.		H0271: 2	1q21-q25	104770, 107300, 107670, 110700, 131210, 135940, 136132, 145001, 146790, 150292, 152445, 152445, 159001, 173610, 174000, 179755, 182860, 182860, 182860, 191315, 208250, 230800, 230800, 233710, 266200, 600897, 600995, 601105, 601412, 601518, 601652, 602491
HNFGM76	908665	3862	1 - 507	13614	Ala-2 to Pro-8, Glu-13 to Pro-20, Gln-30 to His-51, Val-58 to His-64, Thr-71 to Arg-76,		AR089: 8, AR061: 6 L0761: 3, H0457: 2, L0769: 2, L0800: 2, L0794: 2, H0580: 1, H0271: 1, L0796: 1, L0803: 1, L0789: 1,		

						Ser-81 to Glu-94, Thr-101 to Phe-108, Arg-119 to His-126, Gln-139 to Gly-148, Ser-151 to Ser-159.	L0792: 1, L0777: 1 and L0731: 1.		
HNFGN36	575567	3863	67 - 327	13615		Thr-12 to His-29.	H0271: 3, L0766: 1, S0052: 1 and L0591: 1.		
HNFGN60	574588	3864	56 - 334	13616			H0271: 2		
HNFGP07	953915	3865	302 - 517	13617		Thr-42 to Pro-49.	H0271: 1 and H0542: 1.		
HNFGP31	574643	3866	42 - 125	13618			H0271: 1 and H0264: 1.		
HNFGP64	932413	3867	84 - 230	13619			L0766: 3, H0271: 2, H0306: 1 and H0402: 1.		
HNFGQ23	750597	3868	213 - 383	13620		Thr-22 to Phe-28.	H0580: 1 and H0271: 1.		
HNFGQ58	574583	3869	180 - 314	13621		Leu-1 to Ile-8.	H0271: 2		
HNFGU56	574587	3870	3 - 305	13622		Asn-3 to Ser-9, Ala-21 to Trp-29, Ser-51 to Trp-56, Arg-63 to Arg-68, Ile-89 to Pro-94.	H0271: 2		
HNFGW96	915309	3871	430 - 693	13623		Gln-10 to Tyr-17, Arg-19 to Gln-30, Lys-48 to Ala-54.	H0416: 2, L0439: 2, H0271: 1 and L0776: 1.		
HNFGX55	795918	3872	344 - 721	13624			H0271: 4, H0179: 1 and L0748: 1.	9q22	229600, 264300, 600542, 602014, 602088
HNFGZ03	924695	3873	317 - 493	13625			H0271: 1 and S0052: 1.	19q13	109560, 205900, 600652, 600757
HNFHA11	967520	3874	1 - 360	13626			AR089: 11, AR061: 8 H0271: 2		
HNFHD40	970875	3875	327 - 482	13627			H0271: 2 and H0444: 1.		
HNHFH18	666827	3876	313 - 191	13628		Leu-1 to Ser-8.	H0271: 2		
HNHFH32	699518	3877	3 - 323	13629		Ser-6 to Leu-12.	H0271: 2		
HNHFH33	574146	3878	153 - 314	13630			H0271: 2		
HNHFH53	574148	3879	170 - 322	13631		Arg-1 to Ser-7, Glu-9 to Asn-16.	H0271: 2		
HNFHG35	574684	3880	23 - 205	13632			H0271: 2		

HNFFHH12	968808	3881	84 - 182	13633	Arg-2 to Asn-14.	H0271: 2		
HNFFHH31	574697	3882	34 - 213	13634		H0271: 1 and H0090: 1.		
HNFFHH33	574703	3883	180 - 362	13635		H0271: 1 and H0090: 1.		
HNFFHH83	523646	3884	38 - 181	13636		H0271: 2		
HNFFHH88	521932	3885	36 - 128	13637		H0179: 1 and H0271: 1.	19q13.3-q13.4	113900, 126340, 126391, 130410, 134790, 138570, 160900, 173850, 191044, 258501, 600040, 600138, 602225, 602225
HNFFHI17	523569	3886	33 - 203	13638	Asn-4 to Gly-17.	H0271: 3		
HNFFHI10	964802	3887	149 - 352	13639	His-10 to Ser-24, Gln-32 to Phe-55.	H0271: 3	19q13	109560, 205900, 600652, 600757
HNFFHK07	953538	3888	11 - 208	13640	Ser-8 to Ile-16.	H0179: 1 and H0271: 1.		
HNFFHK46	860844	3889	3 - 446	13641	His-1 to Asn-8, Ser-15 to Gln-22, Leu-27 to Arg-32.	H0271: 3		
HNFFHK77	576186	3890	165 - 422	13642	Pro-38 to Lys-43.	AR061: 1, AR089: 0 H0271: 2		
HNFFHK85	577324	3891	114 - 311	13643	Lys-1 to Gly-23.	S0428: 2, H0271: 1, L0770: 1, L0666: 1 and S0053: 1.		
HNFFHM09	657247	3892	3 - 131	13644	Pro-6 to Gly-11.	H0271: 1, S0002: 1 and S0052: 1.		
HNFFHM47	916624	3893	40 - 360	13645		L0771: 2, H0556: 1, H0657: 1, S0116: 1, H0402: 1, H0580: 1, S0278: 1, H0179: 1, H0271: 1, S0002: 1, L0752: 1 and S0196: 1.		
HNFFHM58	674349	3894	3 - 134	13646		H0556: 1 and H0271: 1.		
HNFFHM60	662643	3895	7 - 87	13647		H0585: 1 and H0271: 1.		
HNFFHN03	860887	3896	165 - 272	13648		H0271: 2		
HNFFHQ01	938114	3897	173 - 334	13649	Gln-1 to Trp-8.	H0271: 2 and S0428: 1.		
HNFFHQ23	921950	3898	41 - 322	13650	Arg-60 to Lys-65.	H0271: 1, H0416: 1 and H0521: 1.		
HNFFHQ32	765827	3899	111 - 323	13651	Pro-34 to Ser-44.	H0271: 2 and H0090: 1.		

HNFIHQ67	576147	3900	1 - 240	13652	Thr-59 to Arg-73.	H0271: 2	
HNFIHR70	586494	3901	63 - 344	13653	Leu-10 to Glu-19.	H0271: 3 and H0179: 1.	
HNFIHS84	725666	3902	171 - 383	13654	Asp-13 to Pro-27.	H0271: 1 and H0416: 1.	
HNFIHS85	576118	3903	1 - 195	13655	His-6 to Val-11.	H0271: 1 and H0416: 1.	
HNFIHU20	512927	3904	310 - 471	13656		H0271: 2	
HNFIHU27	683506	3905	171 - 1	13657	Lys-28 to Glu-36, Lys-52 to Lys-57.	L0766: 2, H0341: 1 and H0271: 1.	
HNFIHU85	506309	3906	164 - 376	13658		H0271: 2	
HNFIHV81	766220	3907	59 - 400	13659	Ser-2 to Gly-11.	H0271: 2	
HNFIHW14	939763	3908	2 - 448	13660	Leu-9 to Met-15, Thr-25 to Cys-37, Glu-40 to Gly-45, Leu-109 to His-115.	AR061: 32, AR089: 21 H0271: 2	
HNFIHW40	577110	3909	3 - 314	13661	Pro-25 to Gln-33.	H0271: 1, H0063: 1 and L0750: 1.	
HNFIHW70	757261	3910	115 - 315	13662	Met-3 to Lys-15, Gly-39 to His-45.	H0486: 1 and H0271: 1.	
HNFIHW81	577329	3911	2 - 196	13663	Gly-1 to Asn-6, Met-17 to Phe-23, Thr-36 to Thr-52.	H0255: 1, H0271: 1, S0052: 1 and S0053: 1.	
HNFIHX24	934305	3912	335 - 589	13664	Pro-5 to Asn-14, Glu-20 to Thr-30.	H0271: 1, L0773: 1, L0363: 1, S0428: 1, L0748: 1 and L0749: 1.	
HNFIHX44	716852	3913	84 - 293	13665	Gly-2 to Gly-8.	H0457: 3, H0250: 1, H0179: 1, H0271: 1 and S0053: 1.	
HNFIHY29	860879	3914	2 - 583	13666	Glu-16 to Trp-34.	H0635: 1 and H0271: 1.	
HNFIJA33	861010	3915	2 - 223	13667	Thr-10 to Thr-15.	H0457: 1, H0179: 1, H0271: 1 and H0416: 1.	
HNFIJB47	523438	3916	230 - 319	13668		H0179: 2 and H0416: 1.	
HNFIJB67	577326	3917	125 - 33	13669	Phe-1 to Asn-12.	H0416: 1 and S0052: 1.	
HNFIJC22	577442	3918	86 - 352	13670	Pro-1 to Gly-11, Glu-19 to Ala-27, Gln-49 to Arg-63.	H0271: 1 and H0416: 1.	
HNFIJC43	707264	3919	226 - 363	13671	Arg-18 to Ser-25.	H0416: 1 and S0144: 1.	
HNFIJE18	576032	3920	2 - 166	13672	Cys-23 to Ala-29, Asn-33 to Leu-38.	H0416: 2	

HNFIG07	918389	3921	2 - 478	13673	Gly-50 to Glu-61, Pro-63 to Gln-79, Arg-98 to Ser-107, Pro-126 to Arg-137.	H0581: 1 and H0416: 1.		
HNFIH79	576143	3922	264 - 109	13674		H0416: 1 and H0422: 1.		
HNFIJ46	919275	3923	240 - 476	13675		H0416: 1 and H0445: 1.		
HNFIK03	921951	3924	3 - 194	13676		H0416: 1 and S0052: 1.		
HNFIK37	576151	3925	90 - 236	13677		H0416: 2		
HNFIK44	506258	3926	94 - 330	13678		H0416: 2		
HNFIK13	657201	3927	102 - 434	13679	Arg-47 to Lys-60, Arg-67 to Trp-73.	H0416: 2		
HNFIK16	661500	3928	272 - 111	13680	Pro-31 to Arg-36.	H0416: 1 and H0488: 1.		
	860869	9581	590 - 925	19333	Gln-51 to Thr-78, Lys-95 to Thr-100.			
	964396	9582	327 - 587	19334				
HNFIN33	702415	3929	160 - 333	13681	Lys-1 to Cys-6, Ser-14 to Ser-19.	H0271: 1 and H0416: 1.		
HNFIN60	740372	3930	183 - 443	13682	Pro-18 to Gly-23, Phe-33 to Ala-39, Pro-64 to Trp-79.	H0416: 2		
HNFIN67	574569	3931	3 - 326	13683	Pro-19 to Pro-30, Pro-46 to Ser-55.	H0305: 2, H0271: 1 and H0416: 1.		
HNFIN83	779925	3932	1 - 318	13684	Pro-11 to Val-35, Gln-44 to Leu-52, Gln-92 to Phe-103.	H0402: 1 and H0416: 1.		
HNFI027	573095	3933	74 - 373	13685	Lys-3 to Trp-10, Lys-12 to Phe-17, Ser-32 to Ser-39, Cys-64 to Gln-71, Ala-73 to Asp-78.	H0271: 1, H0416: 1, S0052: 1 and S0053: 1.		
HNFI050	724374	3934	3 - 332	13686	Glu-8 to Ser-16, Ser-41 to Trp-46, Gly-50 to Gly-55, Leu-72 to Arg-80.	H0416: 1 and S0053: 1.		
HNFI082	921037	3935	1 - 210	13687	Ser-7 to Trp-22, Asn-30 to Arg-39.	H0271: 1 and H0416: 1.		



HNFIP50	965283	3936	369 - 1067	13688	Pro-41 to Glu-46. Arg-1 to Trp-17, Ser-50 to Ser-56, Ser-74 to Ala-93, Gly-105 to Ser-116, Thr-177 to Leu-183.	H0656: 1 and H0416: 1.		
HNFIP71	760366	3937	1 - 423	13689	Cys-6 to Thr-15, Asn-29 to Arg-34, Ala-49 to Ser-54, Pro-81 to Gly-86.	H0069: 1 and H0416: 1.		
HNFIP17	768043	3938	183 - 440	13690	Pro-6 to Arg-17, Pro-62 to Gln-74.	H0271: 1, H0416: 1 and H0488: 1.		
HNFIP74	765566	3939	2 - 136	13691	Glu-1 to Phe-13, Ser-17 to Trp-39.	H0271: 1 and H0416: 1.		
HNFIR02	928109	3940	3 - 311	13692	Gln-1 to Ser-11, Cys-20 to Pro-26, Ala-30 to Arg-35, Pro-49 to Gly-57, Ser-72 to Cys-78, Pro-80 to Asp-86, Arg-96 to His-102.	H0416: 2		
HNFIR32	848254	3941	161 - 472	13693	Arg-55 to Gln-61.	H0370: 1, H0416: 1 and H0436: 1.		
HNFIR86	781175	3942	3 - 194	13694		H0271: 1 and H0416: 1.		
HNFIS51	725648	3943	146 - 376	13695		H0416: 2		
HNFIT31	697961	3944	1 - 90	13696		H0416: 1 and H0436: 1.		
HNFIU07	953268	3945	100 - 321	13697	Pro-12 to Ala-27.	H0556: 1 and H0416: 1.		
HNFIU14	967558	3946	2 - 166	13698	Ala-11 to Gly-21, Pro-41 to Gly-51.	H0271: 1 and H0416: 1.		
HNFIU24	677178	3947	192 - 392	13699		H0271: 1 and H0416: 1.		
HNFIU56	733363	3948	267 - 416	13700	Phe-19 to Lys-27.	H0416: 1 and S0002: 1.		
HNFIV38	709265	3949	171 - 335	13701		H0416: 1, H0063: 1 and L0803: 1.		
HNFIV73	764409	3950	3 - 242	13702	Asp-32 to Arg-48, Tyr-69 to Asn-74.	H0271: 1 and H0416: 1.		
HNFIV62	740598	3951	172 - 354	13703	Asn-46 to Ala-61.	H0271: 1 and H0416: 1.		

HNFIZ47	720315	3952	3 - 188	13704			H0271: 1 and H0416: 1.		
HNFJA29	941525	3953	24 - 494	13705	Arg-9 to Leu-15, Cys-36 to Thr-43, Cys-102 to Trp-110, Lys-123 to Glu-128, Met-151 to Gln-157.		H0179: 2 and H0271: 2.		
HNFJA60	740362	3954	3 - 125	13706	Asn-1 to Asp-7.		H0271: 3		
HNFJA78	723390	3955	1 - 201	13707			H0271: 1 and H0264: 1.		
HNFJB80	752489	3956	219 - 392	13708	Leu-39 to Gly-44.		H0556: 1, H0271: 1 and H0543: 1.		
HNFJE30	574145	3957	1 - 243	13709			H0271: 2		
HNFJG33	702411	3958	5 - 181	13710	Asn-5 to Asp-12, Leu-15 to Trp-22.		H0271: 2		
HNFJG44	860847	3959	3 - 590	13711	Asp-1 to Ser-18, Ser-24 to Tyr-31, Glu-36 to Asp-41, Ile-49 to Leu-57, Glu-98 to Glu-103, Gln-118 to His-135, Gly-140 to Ala-146.		H0271: 1, H0063: 1 and L0439: 1.		
HNFJH59	738593	3960	263 - 472	13712	Arg-53 to Arg-60.		H0271: 1 and H0522: 1.		
HNFJH70	956187	3961	676 - 900	13713	Arg-2 to Thr-7.		S0053: 2, S0114: 1, S0116: 1, H0580: 1, H0179: 1, H0271: 1, H0090: 1, H0264: 1, L0805: 1, L0527: 1 and L0367: 1.		
HNGAC50	724666	3962	19 - 123	13714			H0402: 1 and S0052: 1.		
HNGAD53	527977	3963	1 - 225	13715			S0052: 2		
HNGAF45	526940	3964	5 - 295	13716	Gly-1 to Ala-11.		S0116: 2, L0667: 1, L0803: 1, S0052: 1, L0748: 1 and L0749: 1.		
HNGAH10	968271	3965	3 - 167	13717	Lys-11 to Thr-24.		S0052: 1 and S0216: 1.		
HNGAH27	573087	3966	152 - 271	13718	Gln-30 to Asp-35.		S0052: 2		
HNGAI23	676296	3967	197 - 367	13719	Pro-11 to Arg-21, His-43 to Lys-53.		S0052: 2		
HNGAI35	558467	3968	2 - 169	13720			S0052: 2		

HNGAJ10	860751	3969	54 - 230	13721	Arg-14 to Lys-23, Phe-37 to Thr-45.	S0052: 2	
HNGAJ82	577407	3970	2 - 214	13722		S0052: 2	
HNGAK12	660682	3971	3 - 248	13723	Gln-1 to Lys-8, Pro-33 to Ser-58.	H0090: 1 and S0052: 1.	
HNGAK70	860770	3972	3 - 344	13724	Arg-4 to Ile-11.	S0052: 2	
HNGAL51	531719	3973	102 - 233	13725	Ser-2 to Phe-11.	S0052: 2	
HNGAL84	573099	3974	180 - 1	13726	Gly-1 to Thr-11, Gly-55 to Asn-60.	S0052: 2	
HNGAL88	574666	3975	80 - 256	13727	Thr-22 to Ile-29.	S0052: 2	
HNGAL92	953889	3976	3 - 212	13728	Ser-26 to Phe-32, Val-34 to Arg-42.	S0052: 2	
HNGAN28	685436	3977	2 - 115	13729		S0052: 2	
HNGAN78	577412	3978	127 - 444	13730	Pro-80 to Ser-88.	S0278: 1 and S0052: 1.	
HNGAO40	660305	3979	69 - 170	13731	Ala-25 to Gly-33.	S0052: 1 and S0053: 1.	
HNGAP18	666852	3980	127 - 333	13732	Asp-7 to Val-15, Arg-18 to Glu-26.	S0052: 2	
HNGAP59	916323	3981	2 - 166	13733	Pro-3 to Gln-8.	S0144: 1 and S0052: 1.	
HNGAQ54	574647	3982	3 - 164	13734	Arg-46 to Arg-54.	S0052: 2	
HNGAR83	574470	3983	3 - 290	13735		S0052: 2	
HNGAS51	773208	3984	21 - 218	13736		S0052: 1 and S0216: 1.	
HNGAU59	860839	3985	3 - 89	13737		S0052: 2	
HNGAU65	925692	3986	1 - 249	13738	Cys-5 to Ser-11, Pro-37 to Gly-42.	S0052: 1 and S0053: 1.	
HNGAV04	506589	3987	268 - 444	13739		S0052: 2	
HNGAV25	574671	3988	103 - 285	13740	Thr-29 to His-34.	S0052: 2	
HNGAV53	573092	3989	15 - 257	13741	Asn-1 to Cys-6, Glu-16 to Ser-25, Leu-41 to Lys-49, Val-70 to Gln-79.	S0052: 2	
HNGAV79	574661	3990	117 - 383	13742		S0052: 3	
HNGAV84	574651	3991	3 - 107	13743		S0052: 2	
HNGAV88	860753	3992	217 - 453	13744	Gly-1 to Glu-7.	S0052: 2	
HNGAW25	574645	3993	84 - 284	13745	Ser-1 to Asn-6, Arg-11 to Thr-23.	S0052: 2	

HNGAW40	711454	3994	2 - 229	13746			S0052: 2		
HNGAX82	507313	3995	22 - 258	13747			H0271: 1 and S0052: 1.		
HNGAZ49	715380	3996	1 - 216	13748		Gly-41 to Arg-46, Pro-59 to Pro-65.	H0402: 1, L0365: 1 and S0052: 1.		
HNGBB06	936080	3997	2 - 271	13749		Thr-24 to His-35.	S0052: 2, L0742: 1 and L0748: 1.		
HNGBC50	868082	3998	907 - 1395	13750		Gly-26 to Thr-36, His-88 to Lys-103.	AR050: 7, AR054: 3, AR051: 1 S0052: 4		
HNGBE26	684761	3999	227 - 373	13751		Pro-6 to Lys-13.	S0052: 2		
HNGBF41	571331	4000	99 - 371	13752		Ser-15 to Lys-20, Ala-28 to Lys-33.	S0052: 2 and S0216: 1.		
HNGBF80	574475	4001	1 - 132	13753			S0052: 2		
HNGBG20	860739	4002	57 - 218	13754		Glu-2 to Asn-17, Gln-31 to Ala-36.	S0052: 2		
HNGBG50	577364	4003	1 - 219	13755			S0052: 1 and S0053: 1.		
HNGBH04	574469	4004	138 - 28	13756			S0052: 2		
HNGBH77	577361	4005	115 - 243	13757			S0052: 2		
HNGBI10	968246	4006	1 - 165	13758			S0052: 2		
HNGBI35	574403	4007	10 - 114	13759			S0052: 2		
HNGBI70	781978	4008	2 - 442	13760			S0052: 2		
HNGBI88	574409	4009	86 - 343	13761			S0052: 2		
HNGBI95	785983	4010	2 - 127	13762			S0052: 2		
HNGBI40	948741	4011	373 - 576	13763		Glu-1 to Gln-7, Leu-13 to Gln-20, Lys-32 to Gly-39.	S0052: 2 and S0428: 1.		
HNGBJ84	573072	4012	1 - 180	13764		Lys-1 to Lys-11.	S0052: 2		
HNGBJ96	574474	4013	3 - 122	13765			S0052: 2		
HNGBN36	526808	4014	216 - 437	13766		Arg-8 to Leu-30, Ala-32 to Leu-37.	S0052: 3		
HNGBO34	932408	4015	227 - 373	13767			S0052: 2		
HNGBP21	671258	4016	2 - 208	13768			H0250: 1, S0052: 1, L0754: 1 and L0581: 1.		
HNGBP28	421816	4017	1 - 213	13769			S0052: 2		
HNGBP35	526806	4018	1 - 75	13770		Gly-1 to Asn-7,	S0052: 3 and S0426: 1.		

HNGBQ20	859846	4019	227 - 526	13771	Ser-15 to Phe-20.		
HNGBQ75	573047	4020	83 - 253	13772	Val-1 to Tyr-12.	S0052: 1 and S0216: 1.	
HNGBS88	575561	4021	86 - 247	13773	Ser-44 to Arg-52.	S0052: 2	
HNGBT44	574400	4022	153 - 281	13774		S0052: 2	
HNGBT58	577325	4023	200 - 337	13775	Ala-1 to Arg-17.	S0052: 2	
HNGBT72	579064	4024	169 - 285	13776	His-12 to Thr-20, Ile-34 to Tyr-39.	S0052: 2	
HNGBU15	574467	4025	71 - 151	13777		S0052: 2	
HNGBV67	574468	4026	2 - 148	13778		S0052: 2	
HNGBW63	574466	4027	3 - 131	13779	Lys-9 to Ser-18.	S0052: 2	
HNGBX64	574472	4028	1 - 108	13780		S0052: 2	
HNGBZ16	667293	4029	220 - 318	13781	Gln-9 to Lys-14.	S0052: 2	
HNGBZ17	575717	4030	292 - 450	13782		S0052: 2 and S0428: 1.	
HNGBZ20	812895	4031	21 - 176	13783	Gln-24 to Gln-32, Ser-41 to Trp-50.	S0052: 2	
HNGBZ55	573069	4032	143 - 256	13784		S0052: 2 and L0800: 1.	
HNGBZ92	574464	4033	2 - 151	13785		S0052: 2	
HNGCA47	574465	4034	2 - 205	13786		S0052: 2 and S0216: 1.	
HNGCA61	574461	4035	4 - 219	13787	Arg-4 to Arg-10, Arg-27 to Pro-44.	S0052: 2	
HNGCB44	674670	4036	158 - 289	13788	Gln-18 to Asp-24.	S0052: 1 and S0053: 1.	
HNGCC47	926947	4037	1 - 144	13789	Trp-11 to Leu-17, Pro-20 to Pro-28, Ala-32 to Gly-48.	S0052: 1 and S0428: 1.	
HNGCD08	959963	4038	22 - 177	13790	Cys-16 to Arg-28, Cys-30 to Asn-40.	S0052: 1 and S0216: 1.	
HNGCE85	970738	4039	2 - 154	13791		S0052: 2	
HNGCF09	527972	4040	2 - 100	13792		S0052: 2	
HNGCF28	574397	4041	3 - 113	13793	His-1 to Asn-7.	S0052: 2	
HNGCG83	868075	4042	236 - 403	13794		S0052: 2	
HNGCH05	932404	4043	183 - 335	13795	Leu-1 to Asn-6, Ser-23 to Gln-28, Ser-36 to Gln-44.	H0063: 1, S0052: 1, L0748: 1, L0745: 1 and L0749: 1.	
HNGCI02	920722	4044	14 - 214	13796	Thr-37 to Pro-44.	S0052: 1 and S0428: 1.	

HNGCI11	967513	4045	2 - 223	13797	Phe-20 to Leu-26.	S0052: 1 and S0053: 1.	
HNGCI17	526807	4046	56 - 226	13798	Leu-1 to Ser-7.	S0052: 2	
HNGCI53	825377	4047	61 - 270	13799	Gly-18 to Ala-23, Pro-31 to Leu-41, Pro-57 to Glu-67.	S0052: 2	
HNGCI69	574456	4048	3 - 278	13800	Thr-68 to Thr-81.	S0052: 2	
HNGCK34	706561	4049	78 - 206	13801	Pro-21 to Ser-31.	S0052: 1 and S0053: 1.	
HNGCK82	796479	4050	38 - 142	13802	Asn-1 to Thr-6.	S0052: 2	
HNGCK93	574458	4051	151 - 276	13803		S0052: 2	
HNGCL31	571332	4052	154 - 408	13804	Ser-6 to Pro-12, Ser-22 to Lys-30.	S0052: 2 and L0758: 1.	
HNGCL55	574453	4053	3 - 167	13805	Phe-1 to Arg-11, Asp-34 to Asn-42.	S0052: 2	
HNGCM05	932409	4054	2 - 139	13806	Glu-10 to Arg-15.	S0052: 1 and S0053: 1.	
HNGCO37	708694	4055	101 - 409	13807	Phe-16 to Ser-39.	S0052: 2	
HNGCO45	573055	4056	22 - 255	13808	Tyr-2 to Ser-8.	S0052: 2	
HNGCO86	779203	4057	152 - 3	13809		S0052: 1 and S0428: 1.	
HNGCQ37	708698	4058	1 - 258	13810	Gly-26 to Pro-32.	S0052: 2	
HNGCU24	574339	4059	67 - 138	13811		S0052: 2	
HNGCU70	574340	4060	3 - 155	13812	Val-1 to Glu-10, Pro-38 to Trp-43.	S0052: 2	
HNGCW38	574463	4061	115 - 321	13813	Gln-19 to Pro-25.	S0052: 2 and S0428: 1.	
HNGCW81	577253	4062	236 - 346	13814	Lys-7 to Glu-16.	L0766: 1, S0052: 1 and H0445: 1.	
HNGCW82	574344	4063	134 - 307	13815	Lys-1 to Ser-14, Lys-38 to Tyr-43.	S0052: 2	
HNGCW83	574338	4064	3 - 113	13816	Arg-1 to Gly-7, Val-9 to Gly-17.	S0052: 2	
HNGCX07	953900	4065	3 - 287	13817	Lys-55 to Glu-63.	S0052: 2	
HNGCY37	952203	4066	81 - 428	13818	Lys-19 to Gly-28, Glu-37 to Gly-57, Ser-81 to His-99.	S0052: 1 and S0428: 1.	
HNGCY41	806055	4067	36 - 143	13819		S0052: 1 and S0428: 1.	
HNGCY43	574392	4068	1 - 258	13820	Lys-17 to Lys-23, Glu-40 to Trp-46.	S0052: 2	

HNGCY59	959967	4069	112 - 297	13821	Lys-8 to Gly-18, Ser-31 to Asp-50, Pro-55 to Gly-60.	L0766: 3, S0052: 2, L0598: 1, L0659: 1 and L0759: 1.	
HNGCZ13	660916	4070	34 - 240	13822	His-4 to Glu-10, Lys-31 to Ala-37.	S0052: 2	
HNGDA09	574454	4071	1 - 156	13823	Ser-1 to Arg-20, Pro-32 to Phe-38.	S0052: 2	
HNGDA56	574452	4072	18 - 260	13824	Pro-1 to Thr-10, Pro-17 to Pro-23.	S0052: 2	
HNGDB25	784836	4073	96 - 296	13825	His-48 to Thr-53, Pro-55 to Gln-61.	S0052: 1 and S0428: 1.	
HNGDB65	526852	4074	81 - 260	13826		S0052: 2	
HNGDD30	573021	4075	94 - 273	13827	Leu-16 to Asn-22.	S0052: 2	
HNGDD39	709270	4076	9 - 164	13828		S0052: 2	
HNGDD73	764596	4077	264 - 464	13829		S0052: 2	
HNGDE07	953858	4078	2 - 133	13830	Arg-5 to Gly-10, Val-17 to Trp-29, Arg-31 to Val-36.	S0052: 2	
HNGDE31	794124	4079	125 - 244	13831		H0580: 1 and S0052: 1.	
HNGDF48	723368	4080	3 - 161	13832	Gly-16 to Pro-22.	S0052: 2	
HNGDF72	766217	4081	135 - 269	13833	Arg-35 to Pro-40.	S0052: 2	
HNGDG86	577237	4082	59 - 259	13834	Thr-1 to Phe-8, Cys-12 to Gln-17.	S0052: 2	
HNGDH09	573022	4083	118 - 264	13835		S0052: 2	
HNGDH37	917254	4084	70 - 183	13836		S0052: 2	
HNGDH52	914629	4085	3 - 242	13837	Gln-26 to Trp-41.	H0556: 1, H0650: 1, H0250: 1 and S0052: 1.	
HNGDH96	573060	4086	77 - 265	13838	Cys-48 to Asn-58.	S0052: 2 and S0428: 1.	
HNGDK17	860684	4087	3 - 365	13839	His-1 to Gly-16.	S0052: 2	
HNGDK41	574559	4088	223 - 387	13840	Ser-11 to Asn-21, Pro-23 to Met-32.	S0052: 2	
HNGDL32	935842	4089	61 - 369	13841	Ser-1 to Leu-7, Ser-26 to Tyr-35.	S0052: 2	
HNGDL72	574451	4090	1 - 66	13842		S0052: 2	
HNGDL93	927582	4091	46 - 108	13843		S0052: 2	

HNGDO17	973285	4092	240 - 629	13844	Gly-23 to Pro-31, His-40 to Met-55.	H0416: 1 and S0052: 1.	
HNGDP10	968221	4093	2 - 178	13845		S0052: 2	
HNGDP13	574484	4094	2 - 121	13846	Ala-1 to Tyr-7, Pro-17 to Asn-25.	S0052: 2	
HNGDP27	574482	4095	278 - 445	13847		S0052: 2 and L0666: 1.	
HNGDP29	574488	4096	150 - 413	13848	Pro-16 to Gln-22.	S0052: 2	
HNGDP30	574480	4097	195 - 365	13849	Met-35 to His-42.	S0052: 2	
HNGDP71	574481	4098	157 - 360	13850		S0052: 2	
HNGDP74	860669	4099	51 - 500	13851		S0052: 2	
HNGDP89	574478	4100	133 - 261	13852		S0052: 2	
HNGDP95	574477	4101	2 - 190	13853	Gly-2 to Phe-10, Pro-29 to Ser-34.	S0052: 2	
HNGDR19	953672	4102	65 - 388	13854	Glu-11 to Ala-16, Pro-34 to Ser-41, Leu-74 to Thr-80.	S0052: 2	
HNGDR42	657404	4103	53 - 181	13855	Ser-2 to Ser-9, Thr-26 to Cys-36.	S0052: 2	
HNGDR79	572904	4104	92 - 262	13856		S0052: 2	
HNGDR81	572901	4105	2 - 124	13857		S0052: 2	
HNGDR88	860666	4106	198 - 323	13858	Asn-8 to Met-14.	S0052: 2	
HNGDS04	572909	4107	3 - 263	13859	His-1 to Pro-8, Glu-16 to Pro-42, Phe-63 to Lys-76, Pro-78 to Asp-87.	S0052: 2	
HNGDS59	576763	4108	28 - 114	13860	Gln-19 to Gly-24.	S0052: 5	
HNGDS96	796488	4109	1 - 408	13861	Arg-23 to Tyr-29, Gly-36 to Gly-43.	S0052: 1 and S0428: 1.	
HNGDT36	572895	4110	3 - 290	13862	His-1 to His-6, Arg-21 to Trp-30, Glu-40 to Ala-56, Thr-83 to Trp-89.	S0052: 2	
HNGDU45	722062	4111	16 - 372	13863	Pro-22 to Thr-28, Gly-35 to Cys-43.	S0052: 1 and S0053: 1.	
HNGDV22	572910	4112	41 - 280	13864		S0052: 2	
HNGDV25	573152	4113	128 - 259	13865		H0341: 1 and S0052: 1.	



HNGDV59	739407	4114	112 - 2	13866	Pro-2 to Ser-10, Ser-16 to His-21.	S0052: 2		
HNGDV96	796487	4115	192 - 446	13867		S0052: 1 and S0428: 1.		
HNGDW23	576773	4116	3 - 221	13868	Gly-9 to Arg-19, Thr-23 to Trp-31, Pro-37 to Arg-44, Lys-53 to Gly-59, Arg-65 to Ala-73.	S0052: 2		
HNGDW62	573162	4117	80 - 274	13869		S0052: 2		
HNGDW95	661943	4118	267 - 425	13870	Thr-25 to Glu-31.	H0421: 1 and S0052: 1.		
HNGDX50	860661	4119	23 - 142	13871	Thr-1 to Gly-18.	S0052: 2		
HNGDY12	870390	4120	289 - 552	13872		S0134: 1 and S0052: 1.		
HNGDY14	968042	4121	1 - 258	13873	Gln-7 to Thr-17.	S0052: 2		
HNGDY39	572908	4122	218 - 409	13874	Arg-17 to Cys-24, Pro-39 to Met-44.	S0052: 2 and S0428: 1.		
HNGDY92	920168	4123	3 - 212	13875	Lys-13 to Leu-26, Glu-61 to Arg-70.	S0052: 2		
HNGDZ52	572865	4124	221 - 361	13876	Asp-1 to Ser-9.	S0052: 2		
HNGEA44	572855	4125	2 - 118	13877		S0052: 2		
HNGEA82	778879	4126	1 - 177	13878	Gly-10 to Arg-21, Val-28 to Lys-37, Pro-54 to Tyr-59.	S0052: 1 and S0053: 1.		
HNGEA88	578911	4127	20 - 190	13879	Thr-23 to Leu-32.	S0052: 2		
HNGEB79	576743	4128	2 - 220	13880	Pro-25 to Ala-33, Lys-42 to His-48.	S0052: 2		
HNGEB81	572862	4129	12 - 242	13881	Ala-10 to Cys-16, Arg-33 to Trp-40.	S0052: 2		
HNGEB91	924912	4130	123 - 338	13882		S0052: 3		
HNGEC02	917530	4131	487 - 846	13883	Pro-7 to Gly-13, Gly-18 to Gly-38.	AR054: 9, AR051: 4, AR050: 0 H0556: 1 and S0052: 1.		
HNGEC06	935840	4132	2 - 157	13884	Ala-1 to Tyr-8.	S0052: 2		
HNGEC41	782294	4133	11 - 217	13885		S0052: 1 and S0216: 1.		
HNGEC43	573040	4134	258 - 374	13886	Gln-1 to Thr-7.	S0052: 2		
HNGEC44	806031	4135	162 - 359	13887		S0052: 1 and S0428: 1.		
HNGEC75	916809	4136	199 - 597	13888	Arg-1 to Trp-11,	S0053: 2, H0439: 1, L0809:		

HNGED03	924696	4137	2 - 259	13889	Pro-19 to Ser-33. Ala-1 to Arg-9, Ala-22 to Gln-33.	1, S0052: 1 and L0758: 1. S0052: 1 and S0428: 1.	
HNGED21	920156	4138	3 - 194	13890	Asp-29 to Gln-42.	S0052: 2	
HNGED77	572868	4139	95 - 277	13891	His-7 to Ser-12.	S0052: 2	
HNGED91	790309	4140	3 - 287	13892		S0052: 1 and S0428: 1.	
HNGEE18	573018	4141	1 - 207	13893	Val-16 to His-21, Ser-49 to Cys-59.	S0052: 2	
HNGEE39	573065	4142	1 - 306	13894	Pro-5 to Asn-10, Trp-24 to Ser-29, Met-58 to Arg-65, Ala-67 to Gly-72, Glu-78 to Glu-86.	S0052: 4	
HNGEF58	708692	4143	12 - 305	13895		S0052: 2	
HNGEG45	572880	4144	22 - 168	13896	Thr-37 to Gly-42.	S0052: 2	
HNGEG74	860685	4145	200 - 418	13897		S0052: 2	
HNGEG85	784431	4146	77 - 223	13898	Thr-20 to Tyr-26.	S0428: 2 and S0052: 1.	
HNGEG86	573049	4147	2 - 172	13899		S0052: 2	
HNGEI22	967310	4148	2 - 241	13900	Arg-2 to Lys-23, Gly-34 to Gly-45, Tyr-64 to Lys-69.	S0052: 2	
HNGEI47	720471	4149	142 - 453	13901		S0052: 2	
HNGEJ04	932199	4150	53 - 253	13902		S0052: 2	
HNGEJ22	573066	4151	1 - 195	13903	Glu-1 to Thr-11, Gly-27 to Gly-34, Leu-46 to His-53.	S0052: 3	
HNGEJ35	934987	4152	263 - 490	13904		H0318: 1 and S0052: 1.	
HNGEK30	572864	4153	47 - 202	13905	Lys-13 to Leu-22, Thr-26 to Lys-33.	S0052: 2	
HNGEK44	576745	4154	1 - 291	13906	Gly-1 to Asn-8, Ala-23 to Ala-34, Ile-80 to Trp-87.	S0052: 3	
HNGEK68	753159	4155	46 - 342	13907	Ser-1 to Lys-14, Gly-18 to His-30, Glu-35 to Lys-40.	S0052: 2	
HNGEL62	958363	4156	1 - 333	13908		S0052: 1, S0428: 1 and	

HNGEL92	572867	4157	152 - 373	13909		L0748: 1.		
HNGEM38	573041	4158	156 - 272	13910	Gln-1 to Ala-9, Cys-24 to Lys-31.	S0052: 2 and S0428: 1. S0052: 2		
HNGEM53	860643	4159	42 - 272	13911	Pro-27 to Gly-34, Ser-37 to Arg-42.	S0052: 2		
HNGEN37	663955	4160	2 - 259	13912	Asn-9 to Arg-14, Asn-21 to Leu-26.	AR089: 1, AR061: 0 S0052: 2		
HNGEN45	572876	4161	204 - 362	13913	Ser-15 to Thr-21.	S0052: 2		
HNGEP55	732262	4162	1 - 273	13914	Gln-32 to Asn-39, Arg-67 to Ser-73.	S0052: 2		
HNGEP61	576749	4163	2 - 226	13915	Gln-10 to Ala-20, Thr-36 to Gly-43, Arg-69 to Ile-74.	S0052: 2		
HNGEP64	860631	4164	338 - 75	13916	Val-1 to Lys-12.	H0306: 1, H0402: 1, H0305: 1 and S0052: 1.		
HNGEP70	572858	4165	31 - 108	13917	His-1 to Asp-7.	S0052: 2		
HNGEP75	766574	4166	113 - 268	13918		S0052: 1 and S0053: 1.		
HNGEP77	861710	4167	145 - 366	13919	Gly-1 to Gly-9, Glu-67 to Arg-73.	H0271: 1, S0052: 1 and L0439: 1.		
HNGEP81	778161	4168	566 - 880	13920		S0052: 1, S0216: 1 and H0445: 1.		
HNGEQ07	953647	4169	44 - 349	13921	Ala-15 to Phe-23, Glu-35 to Gly-41.	S0052: 1 and S0216: 1.		
HNGEQ32	572984	4170	3 - 278	13922	Thr-7 to Gly-13.	H0341: 1, L0769: 1, L0789: 1, L0791: 1, S0052: 1 and L0777: 1.		
HNGEQ67	860687	4171	73 - 270	13923		S0052: 2 and S0428: 1.		
HNGER25	572873	4172	2 - 97	13924		S0052: 2		
HNGER43	699391	4173	97 - 204	13925		AR061: 3, AR089: 2 S0052: 3		
HNGER67	578903	4174	337 - 507	13926		S0052: 2		
HNGER82	945838	4175	226 - 546	13927	Asn-1 to Gly-6, Gln-23 to Gly-29.	AR061: 1, AR089: 1 L0748: 5, H0444: 2, H0402: 1, L0367: 1 and S0052: 1.		
HNGER84	586451	4176	116 - 319	13928		S0052: 2	2p22-p21	120435, 120435,

									126600, 135300, 136435, 152790, 152790, 157170, 182601, 278300, 601071, 601771, 602134
HNGER96	922996	4177	3 - 362	13929				S0052: 1 and S0428: 1.	
HNGES56	733543	4178	2 - 265	13930				S0114: 1 and S0052: 1.	
HNGES59	490034	4179	381 - 524	13931		Ala-7 to Thr-12, Pro-37 to Gly-44.		S0114: 1, S0052: 1 and H0444: 1.	
HNGES89	573013	4180	1 - 240	13932		Glu-8 to Gln-15.		S0052: 2	
HNGET07	953618	4181	190 - 324	13933				S0052: 2	
HNGET31	506498	4182	67 - 219	13934				S0052: 2	
HNGET67	953529	4183	49 - 219	13935		Gln-11 to Cys-17, Phe-26 to Gly-34, Ala-45 to Phe-53.		S0052: 8	
HNGEU35	853582	4184	396 - 695	13936		Pro-29 to Thr-34, Ser-59 to Thr-66.		S0052: 2 and H0063: 1.	
HNGEU37	860626	4185	146 - 15	13937				S0052: 2	
HNGEV33	781207	4186	48 - 404	13938		Pro-7 to Ser-13.		S0052: 3	
HNGEV34	490914	4187	373 - 486	13939		Lys-1 to Gly-9.		H0255: 2 and S0052: 1.	
	537746	9583	468 - 620	19335					
HNGEV38	572882	4188	3 - 326	13940		His-1 to Arg-7, Arg-78 to Leu-83, Cys-87 to Gly-99.		S0052: 2	
HNGEV40	572894	4189	110 - 316	13941				S0052: 3	
HNGEV53	573090	4190	65 - 211	13942				S0052: 2	
HNGEV59	576750	4191	186 - 317	13943				S0052: 2	
HNGEV65	750391	4192	390 - 599	13944		Ile-54 to Gln-70.		L0748: 2, S0218: 1, S0052: 1, L0746: 1, L0749: 1 and L0608: 1.	
HNGEV70	573089	4193	1 - 141	13945				S0052: 2	
HNGEV75	506312	4194	103 - 258	13946		Arg-14 to Asp-23.		S0052: 2	
HNGEV86	789128	4195	2 - 103	13947		Thr-9 to Lys-15.		S0052: 1 and S0053: 1.	
HNGEV88	750542	4196	149 - 340	13948				S0052: 2	225500, 600593, 602363

HNGEW18	958328	4197	14 - 136	13949	Ser-11 to Tyr-16.	S0052: 1 and S0428: 1.	
HNGEW76	572874	4198	104 - 274	13950	Ile-44 to His-52.	S0052: 2	
HNGEX06	935838	4199	147 - 323	13951	Thr-1 to Phe-7, Ile-39 to Asn-45.	S0052: 3 and S0428: 1.	
HNGEX35	959230	4200	14 - 376	13952		S0052: 2	
HNGEX76	834919	4201	59 - 337	13953		H0179: 1 and S0052: 1.	
HNGEX95	572897	4202	124 - 327	13954		S0052: 2	
HNGEY41	973310	4203	123 - 293	13955		S0052: 2	
HNGEY50	676067	4204	2 - 154	13956		S0052: 2	
HNGEY60	920375	4205	1 - 171	13957	Val-21 to Gly-33, Glu-45 to Gly-50.	S0052: 2	
HNGEY80	790222	4206	256 - 426	13958	Ser-22 to Trp-31.	S0052: 2	
HNGEY84	752239	4207	188 - 481	13959	Glu-7 to Asn-15.	H0179: 1 and S0052: 1.	
HNGEZ45	574462	4208	79 - 333	13960	Glu-1 to Gln-18, Lys-46 to Lys-53.	S0052: 3	
HNGFA28	774277	4209	248 - 679	13961		S0052: 1 and S0216: 1.	
HNGFA39	424813	4210	41 - 478	13962	Thr-17 to Gly-30, Gly-32 to Val-38.	S0052: 2	
HNGFA41	952235	4211	148 - 2	13963		S0052: 1 and S0428: 1.	
HNGFA67	576719	4212	151 - 318	13964		S0052: 2	
HNGFA80	963490	4213	65 - 349	13965		S0052: 1 and S0428: 1.	
HNGFB08	959738	4214	3 - 131	13966		S0052: 2	
HNGFB52	573575	4215	1 - 339	13967	Gly-1 to Ala-15, Ala-17 to Ser-25, Pro-32 to Arg-44, Pro-55 to His-60.	H0305: 2 and S0052: 1.	
HNGFB57	868072	4216	129 - 263	13968	Pro-14 to Ser-21.	S0052: 2	
HNGFB74	573024	4217	2 - 136	13969	Pro-2 to Thr-11, Lys-22 to Leu-27.	S0052: 2	
HNGFC71	573160	4218	3 - 167	13970	Glu-25 to Trp-33, Leu-49 to Arg-55.	S0052: 1 and S0053: 1.	
HNGFD63	835997	4219	54 - 470	13971	Pro-10 to Ser-19, Ser-29 to Leu-47, Ala-60 to Gly-66.	S0052: 1 and S0053: 1.	
HNGFD75	823462	4220	1 - 366	13972		S0052: 2	

HNGFD85	783467	4221	118 - 351	13973	Lys-7 to Thr-20, Ser-28 to Gly-43.	S0052: 1 and S0428: 1.		
HNGFD96	968248	4222	40 - 285	13974		S0052: 2, L0742: 2 and L0592: 1.		
HNGFF35	805996	4223	194 - 451	13975	Pro-1 to Asn-10, Arg-23 to Cys-29.	S0052: 1 and S0428: 1.		
HNGFG22	573084	4224	91 - 261	13976	Gly-25 to Ser-35, Ser-44 to Val-49, Ser-51 to Asp-57.	AR061: 8, AR089: 3 S0052: 2		
HNGFG51	725787	4225	45 - 200	13977		H0305: 2 and S0052: 1.		
HNGFG57	860595	4226	40 - 339	13978	Arg-1 to Lys-8, Arg-60 to Trp-66, Leu-68 to Ile-74, Glu-82 to Gly-89.	S0052: 2 and L0748: 1.		
HNGFG69	926873	4227	1 - 315	13979	Pro-6 to Ser-13, Arg-19 to Gln-35, Thr-54 to Ala-61, His-73 to Cys-78.	S0052: 1 and S0428: 1.		
HNGFH94	966118	4228	262 - 393	13980	Lys-1 to Arg-15, Pro-17 to Asp-23, Pro-38 to Lys-44.	S0052: 1 and S0428: 1.		
HNGFI06	935828	4229	240 - 371	13981		S0052: 1 and S0428: 1.		
HNGFI20	578896	4230	90 - 332	13982	Gly-20 to Lys-26, Pro-40 to Lys-47.	S0052: 2		
HNGFI32	699398	4231	224 - 346	13983		H0255: 1 and S0052: 1.		
HNGFI81	578892	4232	202 - 381	13984		S0052: 2		
HNGFI27	860591	4233	78 - 272	13985		S0002: 1 and S0052: 1.		
HNGFK28	544726	4234	1 - 756	13986	Glu-4 to Asn-15, Ser-104 to Gly-111, Leu-230 to Pro-237.	AR061: 6, AR089: 2 S0052: 3		
	566798	9584	1 - 756	19336	Glu-4 to Asn-15, Ser-104 to Gly-111, Leu-230 to Pro-237.			
	943114	9585	351 - 1	19337	Gln-1 to Ile-15, Leu-76 to Arg-82, Gln-90 to Thr-96.			

	943115	9586	3 - 530	19338	Glu-6 to Asn-17, Ser-106 to Gly-113.			
HNGFK44	860589	4235	46 - 177	13987		S0052: 2		
HNGFL04	572833	4236	1 - 153	13988	Ser-4 to Thr-12, Thr-23 to Thr-30.	S0052: 2		
HNGFM50	584729	4237	1 - 324	13989	Thr-2 to Arg-11, Asp-30 to Gly-35.	S0052: 2		
HNGFM74	578884	4238	471 - 310	13990	Glu-19 to Pro-24, Ser-49 to Thr-54.	H0583: 1, H0402: 1 and S0052: 1.		
HNGFM79	860585	4239	1 - 300	13991	Pro-35 to Ser-40, Thr-64 to Ser-70.	S0052: 2		
HNGFN21	572821	4240	2 - 205	13992	Ser-12 to Thr-19, Pro-58 to Gln-65.	S0052: 3, H0556: 1 and L0777: 1.		
HNGFN56	970740	4241	167 - 349	13993		S0052: 3		
HNGFN65	576698	4242	1 - 285	13994	Gln-21 to Gly-29, Pro-39 to Asn-44.	S0052: 2		
HNGFN96	770209	4243	170 - 295	13995		S0052: 2		
HNGFO46	935135	4244	3 - 215	13996	Pro-1 to Gly-6.	H0580: 2 and S0052: 1.		
HNGFO55	572856	4245	3 - 266	13997	Lys-16 to Arg-21, Leu-30 to Pro-35, Asn-48 to Gly-53, Ala-68 to Ser-78.	S0052: 2		
HNGFO81	526792	4246	69 - 263	13998	Pro-48 to Gly-55.	AR061: 2, AR089: 0 S0052: 2		
HNGFP02	920483	4247	11 - 205	13999	Lys-25 to Glu-36.	S0052: 2		
HNGFP08	959730	4248	2 - 376	14000	Gln-34 to Gly-39, Lys-70 to Gly-80.	S0052: 2		
HNGFP62	573052	4249	42 - 302	14001		S0052: 1 and S0053: 1.		
HNGFP80	931021	4250	109 - 372	14002		S0052: 2		
HNGFP93	707332	4251	187 - 360	14003	Asn-1 to Gln-9.	S0052: 3		
HNGFQ36	703715	4252	74 - 370	14004	His-1 to Gly-15.	H0580: 1 and S0052: 1.		
HNGFQ58	576715	4253	109 - 279	14005	Thr-22 to Asp-28, Glu-43 to Gly-49.	S0052: 2 and H0583: 1.		
HNGFR02	920482	4254	89 - 286	14006	Lys-8 to Lys-19, Glu-25 to Glu-34, Ala-38 to Gln-53.	S0052: 1 and S0428: 1.		

HNGFR16	573358	4255	37 - 303	14007		S0053: 2 and S0052: 1.	
HNGFR48	860245	4256	178 - 450	14008	Cys-41 to Ser-47.	S0052: 1, S0428: 1 and L0748: 1.	
HNGFR73	646263	4257	268 - 405	14009		S0052: 2 and H0063: 1.	
HNGFR80	576713	4258	185 - 337	14010	Pro-7 to Lys-20, Glu-45 to Cys-50.	S0052: 3	
HNGFR85	572838	4259	151 - 240	14011	Phe-17 to His-23.	S0052: 2	
HNGFS46	573094	4260	3 - 209	14012		S0052: 2	
HNGFS58	932396	4261	2 - 313	14013		S0052: 2	
HNGFS71	572828	4262	132 - 341	14014		S0052: 2	
HNGFT19	671599	4263	2 - 214	14015	Met-13 to Phe-23, Gln-29 to Trp-40, Arg-63 to Lys-71.	S0052: 1 and S0053: 1.	
HNGFT77	772335	4264	113 - 328	14016	Gly-1 to Glu-9.	S0052: 1 and S0216: 1.	
HNGFU12	971170	4265	45 - 290	14017		AR089: 4, AR061: 1 S0052: 1 and S0428: 1.	
HNGFU28	860576	4266	82 - 189	14018		S0052: 2	
HNGFU40	559450	4267	2 - 367	14019	Arg-16 to Thr-40.	S0052: 2	
HNGFV03	924670	4268	2 - 211	14020		S0052: 1 and S0428: 1.	
HNGFV32	806047	4269	15 - 326	14021		S0052: 1 and S0428: 1.	
HNGFW09	924693	4270	218 - 340	14022		S0052: 2	
HNGFW15	578901	4271	3 - 200	14023	Trp-8 to Ser-14.	S0052: 2	
HNGFW31	578864	4272	149 - 331	14024	Ile-1 to Asn-21, Lys-38 to Thr-43.	S0052: 2	
HNGFW82	839957	4273	7 - 87	14025	Ser-3 to Leu-10.	S0052: 2	
HNGFW96	959715	4274	360 - 473	14026		S0052: 3	
HNGGA08	959637	4275	78 - 206	14027	Ser-34 to Phe-41.	S0052: 2	
HNGGA10	964820	4276	102 - 263	14028		S0052: 2	
HNGGA20	764502	4277	27 - 290	14029	Leu-39 to Ile-46, Pro-48 to Pro-53.	H0250: 2 and S0052: 2.	
HNGGA40	506337	4278	68 - 256	14030	Thr-45 to Cys-53.	S0052: 2	
HNGGA44	577362	4279	136 - 2	14031		S0052: 2 and S0428: 1.	
HNGGA53	576212	4280	154 - 348	14032	Gly-56 to Ala-62.	S0052: 2	
HNGGA90	572869	4281	1 - 210	14033		S0052: 3	
HNGGB09	881399	4282	217 - 294	14034		S0052: 2	



HNGGE10	964821	4283	28 - 171	14035			S0052: 2		
HNGGE38	576217	4284	53 - 136	14036	Gly-8 to Arg-17.		S0052: 2 and S0428: 1.		
HNGGF02	840277	4285	56 - 301	14037			S0052: 2		
HNGGF03	924587	4286	165 - 383	14038			S0052: 2		
HNGGF06	935709	4287	19 - 153	14039	Gly-18 to Thr-24, Pro-38 to Lys-45.		S0052: 2		
HNGGF26	577369	4288	65 - 226	14040	Arg-15 to Leu-20.		S0052: 3		
HNGGF57	576256	4289	131 - 319	14041	Arg-1 to Val-10, Ser-15 to Phe-24, Leu-46 to Lys-52.		S0052: 2		
HNGGG02	920379	4290	2 - 298	14042	Pro-23 to Asn-28, Ser-43 to Gly-51, Gly-75 to Trp-86.		S0052: 2		
HNGGG10	964818	4291	9 - 185	14043	Ser-7 to Asp-19, Trp-32 to Val-38, Lys-45 to Asp-53.		S0052: 4		
HNGGG15	576294	4292	2 - 160	14044	Tyr-18 to Asn-23.		S0052: 2		
HNGGG18	506304	4293	64 - 282	14045	Ala-27 to Gln-32.		S0052: 2		
HNGGG22	576267	4294	124 - 276	14046	Gln-9 to Glu-14.		S0052: 2		
HNGGG25	679153	4295	2 - 106	14047			S0052: 2		
HNGGG26	576298	4296	2 - 283	14048	Asn-28 to Ser-35, Lys-50 to Pro-56.		S0052: 2		
HNGGG50	576295	4297	135 - 296	14049			S0052: 2		
HNGGG56	733510	4298	160 - 309	14050			S0052: 2		
HNGGG63	576296	4299	127 - 378	14051	Gln-10 to Gln-18, Glu-25 to Val-30.		S0052: 2		
HNGGG76	576231	4300	89 - 232	14052			S0052: 2		
HNGGH38	582695	4301	1 - 156	14053	Gly-6 to Ala-14.		S0052: 2		
HNGGH48	576705	4302	106 - 303	14054	Leu-9 to Cys-14, Ile-44 to Asp-50, Ser-56 to Leu-62.		S0052: 2		
HNGGH57	576278	4303	3 - 143	14055	Lys-16 to His-21, Ala-32 to Tyr-37.		S0052: 2		
HNGGH64	860426	4304	169 - 423	14056	Glu-19 to Gly-26, Gly-41 to Thr-47, Ser-79 to Glu-85.		S0052: 2		

HNGGH74	577192	4305	164 - 346	14057			S0052: 2	
HNGGH78	924908	4306	159 - 431	14058	Lys-19 to Arg-26.		S0052: 2	
HNGGH95	576214	4307	36 - 344	14059			S0052: 3	
HNGGI08	959639	4308	3 - 158	14060	Asn-11 to Gly-18, Glu-28 to Gly-35.		S0052: 2	
HNGGI52	576270	4309	1 - 168	14061	Arg-14 to Arg-19.		S0052: 3	
HNGGI58	825371	4310	1 - 117	14062			S0052: 2	
HNGGI81	830081	4311	155 - 286	14063			S0052: 3 and L0600: 2.	
HNGGK31	576259	4312	72 - 1	14064	Lys-1 to Lys-7.		S0052: 2	
HNGGK53	576253	4313	2 - 202	14065	Lys-20 to Trp-27.		S0052: 2	
HNGGK86	576247	4314	102 - 269	14066			S0052: 2	
HNGGK94	576255	4315	69 - 179	14067	Ser-1 to Tyr-7.		S0052: 2	
HNGGL51	576758	4316	48 - 260	14068	Gln-29 to Lys-35, Lys-46 to Arg-52, Ser-58 to Ser-63.		S0052: 2	
HNGGM10	964819	4317	175 - 582	14069	Lys-1 to Asn-8.		S0052: 1 and S0428: 1.	
HNGGM41	576284	4318	137 - 316	14070	Ser-22 to Arg-28.		S0052: 2	
HNGGM56	576219	4319	1 - 150	14071	Asn-9 to Trp-16, Ala-20 to Phe-31, Lys-39 to Gly-45.		S0052: 2	
HNGGM67	576220	4320	189 - 380	14072	Arg-29 to Trp-34.		S0052: 2	
HNGGM76	576287	4321	2 - 298	14073	Ser-19 to Ser-24.		S0052: 2	
HNGGM92	576229	4322	85 - 309	14074			S0052: 2	
HNGGN03	924578	4323	1 - 294	14075	Pro-22 to Thr-28, Pro-63 to Arg-70.		S0052: 2	
HNGGN04	576263	4324	2 - 238	14076			S0052: 2	
HNGGN16	576268	4325	43 - 255	14077	Pro-8 to Gly-18.		S0052: 2	
HNGGN36	708119	4326	2 - 211	14078	His-14 to Trp-27.		S0052: 2	
HNGGN64	577319	4327	1 - 123	14079			S0052: 2	
HNGGN94	967253	4328	14 - 127	14080	Gly-20 to Gln-28.		S0052: 2	
HNGGO01	916754	4329	155 - 340	14081	Lys-30 to Thr-36.		S0052: 2	
HNGGO14	860246	4330	164 - 328	14082	Phe-40 to Gln-48.		S0052: 1 and S0428: 1.	
HNGGO25	576277	4331	2 - 163	14083			S0052: 2	
HNGGQ31	576238	4332	1 - 132	14084	Gly-1 to Gln-8, Ser-16 to Arg-21.		S0052: 2	

HNGGQ41	712426	4333	257 - 475	14085	Trp-1 to Gly-7.	L0748: 4, S0052: 1 and S0428: 1.	
HNGGQ65	576249	4334	1 - 147	14086		S0052: 2	
HNGGQ89	577327	4335	56 - 337	14087	Arg-10 to Pro-18, Pro-38 to Asp-53.	S0052: 2 and S0428: 2.	
HNGGR01	916753	4336	167 - 364	14088	Leu-49 to Asn-54.	L0748: 3, L0766: 1, S0052: 1, L0751: 1 and H0445: 1.	
HNGGR10	964815	4337	121 - 255	14089		S0052: 3	
HNGGR17	576250	4338	44 - 229	14090		S0052: 2	
HNGGR43	576246	4339	214 - 447	14091	Gly-14 to His-23, Trp-40 to Ser-53.	S0052: 2	
HNGGR74	765698	4340	8 - 82	14092		AR089: 1, AR061: 0	
HNGGS09	970861	4341	1 - 156	14093	Pro-4 to Gly-14.	S0052: 3	
HNGGS26	825369	4342	54 - 353	14094	Tyr-1 to Asp-6, Thr-13 to Val-27.	S0052: 6	
HNGGS33	576305	4343	217 - 423	14095	Glu-8 to Glu-14, Thr-40 to Asn-53.	S0052: 2	
HNGGS41	576308	4344	3 - 77	14096		S0052: 2	
HNGGS66	576312	4345	64 - 192	14097	Pro-11 to Pro-16, Arg-34 to Glu-39.	S0052: 2	
HNGGS67	751781	4346	2 - 112	14098		S0052: 3	
HNGGS73	576740	4347	57 - 200	14099	Ser-16 to Ser-26.	S0052: 3	
HNGGS78	576311	4348	1 - 183	14100	Gly-1 to Asn-25.	S0052: 2	
HNGGT44	576297	4349	143 - 325	14101		S0052: 2	
HNGGT46	719127	4350	46 - 288	14102		S0052: 2	
HNGGT55	576302	4351	75 - 314	14103	Cys-11 to Ser-17.	S0052: 2	
HNGGT57	576301	4352	1 - 249	14104		S0052: 2	
HNGGT58	576299	4353	2 - 376	14105	Tyr-12 to Gln-22.	S0052: 4	
HNGGT62	725750	4354	3 - 110	14106	Pro-10 to Cys-16, Pro-27 to Asn-33.	S0052: 2	
HNGGV07	953549	4355	54 - 194	14107		S0052: 2	
HNGGV55	576313	4356	1 - 300	14108	Pro-7 to Val-16, Ala-42 to Gly-47, Tyr-72 to Pro-82.	S0052: 2	

HNGGV70	781247	4357	178 - 363	14109	Tyr-4 to Ser-11.	S0052: 2, H0521: 1 and H0543: 1.	
HNGGV95	795920	4358	216 - 437	14110	Pro-7 to Arg-14.	S0052: 2	
HNGGX46	868071	4359	3 - 278	14111		S0052: 2	
HNGGX49	860551	4360	128 - 331	14112		S0052: 2	
HNGGX91	576188	4361	71 - 274	14113		S0052: 2	
HNGGX93	576193	4362	1 - 276	14114	Pro-2 to Leu-7, Pro-25 to Cys-30, Gly-42 to Glu-49.	S0052: 2	
HNGGX95	576222	4363	2 - 292	14115		S0052: 2	
HNGHA08	953539	4364	2 - 229	14116	Lys-38 to Arg-43, Thr-70 to Ser-75.	S0052: 2	
HNGHA10	860553	4365	243 - 467	14117	Arg-37 to Thr-48.	S0052: 1 and S0428: 1.	
HNGHA47	576213	4366	2 - 295	14118	Cys-20 to Ser-31, Arg-50 to Ser-58.	S0052: 2	
HNGHA70	576300	4367	161 - 292	14119	Ser-22 to Ala-30, Val-34 to Trp-41.	S0052: 2	
HNGHA77	772279	4368	2 - 217	14120	Ala-15 to Leu-20, His-26 to Leu-33, Cys-35 to Thr-46.	S0052: 2	
HNGHB07	860552	4369	73 - 384	14121	Arg-21 to Asn-26.	S0052: 2	
HNGHB31	576306	4370	17 - 322	14122	Pro-22 to Ser-29, Thr-51 to Gly-61, Gly-76 to His-87.	S0052: 2	
HNGHB33	506261	4371	15 - 92	14123	Gly-13 to Pro-22.	S0052: 2	
HNGHB48	463007	4372	306 - 548	14124		S0052: 3	
HNGHB55	733509	4373	308 - 475	14125	Asn-6 to Thr-19.	S0052: 4	
HNGHB80	576769	4374	1 - 306	14126	Gly-1 to Gly-6.	S0052: 2	
HNGHB91	576215	4375	158 - 529	14127	Asn-69 to Glu-81, Lys-104 to Ser-110.	S0052: 2	
HNGHD04	932099	4376	1 - 339	14128	Ala-102 to Pro-107.	S0052: 2	
HNGHD09	860544	4377	29 - 211	14129	Glu-2 to Pro-14, Ala-29 to Thr-38, Glu-45 to Gly-51.	S0052: 2	
HNGHD22	576314	4378	26 - 223	14130	Pro-14 to Cys-20, Asn-22 to Leu-31.	S0052: 2	

HNGHD25	506262	4379	61 - 318	14131	Phe-1 to Ser-6, Gln-8 to Glu-20, Leu-54 to Ala-60.	S0052: 2	
HNGHD59	836226	4380	82 - 357	14132		S0052: 2	
HNGHD67	576317	4381	321 - 443	14133		S0052: 3	
HNGHE07	953540	4382	71 - 184	14134	Arg-24 to Gly-29.	S0052: 2	
HNGHE17	576209	4383	64 - 180	14135		S0052: 3	
HNGHE52	576197	4384	41 - 280	14136		S0052: 2	
HNGHE56	577124	4385	169 - 357	14137	Pro-7 to Gly-14, Pro-28 to Gln-34.	S0052: 2	
HNGHE62	576202	4386	31 - 279	14138		S0052: 2	
HNGHE69	753107	4387	232 - 516	14139	Gly-21 to Ile-32, Lys-34 to Trp-41.	S0052: 2	
HNGHE95	779951	4388	2 - 157	14140		S0052: 5	
HNGHG15	971736	4389	1 - 177	14141	Gly-1 to Ser-12, Pro-21 to Ser-27.	S0052: 2	
HNGHG22	577414	4390	129 - 263	14142	Lys-7 to Gly-14, Phe-26 to Gly-33.	S0052: 2	
HNGHG56	576230	4391	147 - 260	14143	Pro-11 to Gly-16.	S0052: 2	
HNGHG68	576232	4392	216 - 344	14144	Gly-2 to Pro-11, Ala-27 to Leu-36, Pro-38 to Trp-43.	S0052: 2	
HNGHG71	576218	4393	1 - 183	14145	Gly-1 to Gly-9, Tyr-14 to Ser-20.	S0052: 2	
HNGHJ26	924570	4394	1 - 384	14146	Gly-1 to Lys-6, Leu-10 to Pro-20.	S0052: 2	
HNGHK13	577354	4395	130 - 348	14147	Lys-1 to Glu-35.	S0052: 2 and S0428: 1.	
HNGHK42	582685	4396	26 - 211	14148		S0052: 2	
HNGHK44	576208	4397	39 - 164	14149		S0052: 2	
HNGHK46	576205	4398	39 - 173	14150	Gln-26 to Arg-34, Glu-40 to Arg-45.	S0052: 2	
HNGHK48	576206	4399	182 - 319	14151		S0052: 2	
HNGHK50	576195	4400	230 - 376	14152	Asp-1 to Lys-13.	S0052: 2	
HNGHK53	576191	4401	3 - 143	14153	His-1 to Leu-6, Gln-23 to Thr-42.	S0052: 2	

HNGHK68	576207	4402	2 - 205	14154	Ala-1 to Asn-20.	S0052: 3		
HNGHK77	772277	4403	144 - 494	14155	Lys-11 to Thr-23, Gln-40 to Ile-47.	S0052: 1 and S0428: 1.		
HNGHL10	964814	4404	3 - 242	14156	Gln-45 to Leu-76.	S0052: 2		
HNGHL20	973969	4405	108 - 410	14157	Arg-2 to Gly-20, Pro-23 to Pro-33, Trp-41 to Gly-48, Cys-74 to Ser-79, Asn-84 to Gly-89.	S0052: 2		
HNGHL22	576326	4406	160 - 246	14158	Lys-17 to Arg-24.	S0052: 3, L0752: 2, S0114: 1, L0662: 1 and L0547: 1.		
HNGHL51	576223	4407	232 - 2	14159		S0052: 2		
HNGHL52	576226	4408	38 - 358	14160		S0052: 2		
HNGHL65	576320	4409	2 - 187	14161		S0052: 2		
HNGHL76	506269	4410	1 - 159	14162	Pro-38 to Leu-48.	S0052: 3		
HNGHL77	772283	4411	163 - 306	14163		S0052: 2		
HNGHM33	576741	4412	67 - 315	14164	Ser-1 to Asp-10, Asn-29 to Ser-34, Gln-60 to Lys-77.	S0052: 2		
HNGHM36	576325	4413	2 - 244	14165	Pro-14 to Arg-20.	S0052: 2		
HNGHM51	713805	4414	3 - 281	14166	Thr-47 to Gly-56, Thr-71 to Ser-77, Arg-85 to Arg-90.	S0052: 2		
HNGHN22	421742	4415	2 - 226	14167	Ala-69 to Ser-75.	S0052: 2		
HNGHN40	576165	4416	70 - 255	14168	Arg-1 to Gln-21.	S0052: 2		
HNGHN42	576111	4417	16 - 249	14169	Asp-19 to Leu-30.	S0052: 2		
HNGHN52	576681	4418	61 - 354	14170		S0052: 2		
HNGHN56	733881	4419	198 - 428	14171	Thr-31 to Phe-43.	S0052: 2		
HNGHN70	576108	4420	91 - 297	14172		S0052: 2		
HNGHN75	576110	4421	22 - 237	14173	Met-5 to Gln-19, Gly-21 to Leu-29.	S0052: 2		
HNGHN76	576170	4422	2 - 232	14174		S0052: 2		
HNGHN86	785566	4423	216 - 1	14175		S0052: 2		
HNGHN93	506259	4424	110 - 283	14176	Pro-24 to Ser-29, Asn-32 to Ser-47, His-53 to Pro-58.	S0052: 3		

HNGHN94	970856	4425	1 - 150	14177	Pro-26 to His-33, Pro-35 to Gly-48.	S0052: 2	
HNGHN95	576127	4426	175 - 438	14178	Ser-69 to Gly-75.	S0052: 2	
HNGHO02	920373	4427	40 - 246	14179		S0052: 2	
HNGHO10	964804	4428	118 - 318	14180	Pro-22 to Pro-28.	S0052: 2	
HNGHO15	576168	4429	1 - 192	14181	Gln-41 to Thr-55.	S0052: 3	
HNGHO26	420281	4430	74 - 241	14182		S0052: 2	
HNGHO28	576173	4431	79 - 375	14183	Arg-4 to Lys-11.	S0052: 3	
HNGHO32	575735	4432	148 - 333	14184		S0052: 2	
HNGHO36	576142	4433	26 - 328	14185	Lys-19 to Thr-27, Pro-79 to Ser-86.	S0052: 4	
HNGHO62	840278	4434	46 - 324	14186	Ser-19 to Met-25.	S0052: 2	
HNGHO66	576174	4435	125 - 349	14187	Ser-8 to Trp-14.	S0052: 2	
HNGHP28	576178	4436	93 - 245	14188	Pro-27 to Lys-32, Arg-43 to Ile-50.	S0052: 2	
HNGHP66	576136	4437	20 - 139	14189		S0052: 2	
HNGHP74	577357	4438	3 - 179	14190		S0052: 2	
HNGHP91	576053	4439	112 - 237	14191		S0052: 2	
HNGHP95	577335	4440	262 - 426	14192	Asp-22 to Thr-27.	S0052: 2	
HNGHQ27	683507	4441	156 - 272	14193		S0212: 1 and S0052: 1.	
HNGHQ43	576262	4442	51 - 188	14194	Pro-21 to Leu-28.	S0052: 2	
HNGHQ55	576144	4443	1 - 180	14195	Glu-18 to Arg-28.	S0052: 3	
HNGHQ72	576105	4444	1 - 276	14196	Leu-16 to Gly-23.	S0052: 3	123620, 151410, 600850
HNGHQ76	770126	4445	18 - 140	14197	Asn-14 to Lys-22.	S0052: 3	
HNGHQ96	723008	4446	1 - 273	14198	Lys-59 to Arg-64.	S0052: 2	
HNGHR04	576196	4447	210 - 434	14199	Ser-31 to Pro-36, Arg-44 to Arg-55.	S0052: 3	
HNGHR79	576199	4448	152 - 364	14200		S0052: 2	
HNGHR83	576210	4449	154 - 438	14201	His-1 to Cys-9, Gln-34 to Lys-46, Val-50 to Lys-62, Phe-64 to Lys-70.	S0052: 3	
HNGHT06	935706	4450	3 - 254	14202		S0052: 2	
HNGHT92	576149	4451	95 - 247	14203	Arg-18 to Gly-49.	S0052: 2	

HNGHY07	953531	4452	8 - 211	14204	Ile-9 to His-25.	S0052: 2	
HNGHY31	577363	4453	304 - 438	14205	Ser-32 to Phe-37.	S0052: 3	
HNGHY54	730769	4454	180 - 275	14206	Pro-7 to Asn-12.	H0318: 1 and S0052: 1.	
HNGHY78	576139	4455	18 - 185	14207		S0052: 3	
HNGHZ17	860532	4456	30 - 371	14208	Glu-17 to Ser-24.	S0052: 2 and H0656: 1.	
HNGHZ48	576181	4457	3 - 149	14209		S0052: 2	
HNGHZ51	716649	4458	1 - 147	14210	His-10 to Glu-16, Phe-18 to Asp-23.	S0052: 2	
HNGIA19	576269	4459	117 - 323	14211		S0052: 2	
HNGIA40	576155	4460	56 - 268	14212	Lys-39 to Pro-45.	S0052: 2	
HNGIA66	678887	4461	89 - 265	14213	Trp-5 to Gly-18, Ser-29 to Ser-42.	S0052: 3 and S0428: 1.	
HNGIC34	934280	4462	138 - 242	14214	Asn-23 to Lys-34.	S0052: 1 and S0428: 1.	
HNGIC67	576177	4463	1 - 309	14215	Pro-28 to Ser-36.	S0052: 3	
HNGID03	921946	4464	60 - 182	14216		S0052: 2 and S0053: 1.	
HNGID11	967226	4465	127 - 351	14217		S0052: 2	
HNGID15	660299	4466	1 - 444	14218	Pro-7 to Ser-12, Phe-90 to Glu-96.	S0052: 1 and S0053: 1.	
HNGID16	576114	4467	112 - 264	14219	Val-1 to Trp-11.	S0052: 2	
HNGID33	868069	4468	123 - 1	14220		S0052: 2	
HNGID67	751668	4469	88 - 267	14221		S0052: 1 and S0053: 1.	
HNGID78	576117	4470	34 - 399	14222	Leu-17 to Leu-24, Tyr-26 to Trp-39, Arg-47 to His-58, Ala-69 to Ile-76.	S0052: 2	
HNGID80	576120	4471	66 - 200	14223	Lys-33 to Gly-40.	S0052: 2	
HNGID89	577358	4472	54 - 203	14224	Pro-13 to Gln-22.	S0052: 2	
HNGID91	577189	4473	221 - 361	14225	Arg-40 to Pro-46.	S0052: 1 and S0053: 1.	
HNGIH02	920362	4474	2 - 97	14226		S0052: 2	
HNGIH56	576122	4475	2 - 226	14227	Ala-1 to Ser-7.	S0052: 2	
HNGIH94	576123	4476	3 - 152	14228	Thr-18 to Leu-23, Asp-42 to Cys-48.	S0052: 2	
HNGIH16	576154	4477	1 - 78	14229		S0052: 2	
HNGIH47	576156	4478	1 - 117	14230	Arg-21 to Pro-28, Lys-31 to Trp-37.	S0052: 2	



HNGII50	915340	4479	3 - 158	14231	Asn-6 to Thr-16.	S0052: 2	
HNGII74	576158	4480	149 - 367	14232	Trp-22 to Gly-28, Arg-46 to Ser-52.	S0052: 2	
HNGII76	576153	4481	3 - 113	14233	Ser-30 to Gln-37.	S0052: 2	
HNGII85	576102	4482	2 - 142	14234	Ala-1 to Ala-13, Val-17 to Ile-27.	S0052: 2 and S0053: 1.	
HNGII01	916748	4483	67 - 168	14235	Ser-19 to Lys-26.	S0052: 1 and S0428: 1.	
HNGII05	925597	4484	59 - 262	14236		S0052: 2	
HNGII11	964809	4485	73 - 258	14237	Gln-16 to Asn-22.	S0052: 3	
HNGII59	860526	4486	2 - 223	14238	Pro-5 to Ser-11, Lys-17 to Tyr-23.	S0052: 3	
HNGII66	576224	4487	1 - 141	14239	Cys-13 to Ile-18.	S0052: 2	
HNGII67	506355	4488	163 - 306	14240		S0052: 3	
HNGII96	779901	4489	122 - 448	14241	Pro-10 to Pro-31.	S0052: 3	
HNGIK41	712362	4490	132 - 218	14242		S0052: 3	
HNGIK42	713817	4491	3 - 230	14243	His-1 to Arg-8, Gly-24 to Gly-38, Glu-41 to Trp-47.	S0052: 2	
HNGIK77	772230	4492	3 - 149	14244	Ser-13 to Val-27.	S0052: 2	
HNGIL27	839952	4493	291 - 434	14245	Lys-1 to Tyr-7, Arg-43 to Gln-48.	S0052: 1 and H0422: 1.	
HNGIL43	715328	4494	168 - 332	14246	Leu-6 to Pro-11, Leu-16 to Trp-23, Lys-35 to Leu-42.	S0052: 2	
HNGIM04	615308	4495	30 - 215	14247	Pro-41 to His-53.	H0083: 1 and S0052: 1.	
HNGIM46	653221	4496	135 - 254	14248	Arg-1 to Leu-21.	S0052: 2	
HNGIM76	770078	4497	2 - 268	14249		S0052: 2	
HNGIM90	788715	4498	57 - 233	14250	Gln-19 to Ala-34, Ser-41 to Lys-48, Ser-53 to Lys-59.	S0052: 3	
HNGIM92	783495	4499	55 - 216	14251	Tyr-1 to Lys-8, Phe-11 to Asp-16.	S0052: 1 and H0423: 1.	
HNGIN11	964991	4500	219 - 521	14252		S0052: 1 and S0428: 1.	
HNGIN18	666515	4501	3 - 254	14253	His-47 to Pro-52, Arg-58 to Gly-67.	S0052: 2	

HNGIN28	860521	4502	123 - 290	14254	Gln-20 to Arg-25.	S0052: 1 and S0216: 1.	
HNGIO15	660320	4503	159 - 404	14255	Glu-1 to Thr-8, Arg-15 to Asp-26.	S0052: 3	
HNGIO77	576857	4504	253 - 378	14256		S0052: 2 and H0341: 1.	
HNGIP30	577338	4505	3 - 242	14257	Glu-2 to Glu-18, Gly-50 to Ala-55.	S0052: 2, L0663: 1, S0053: 1 and H0445: 1.	
HNGIP39	840215	4506	2 - 352	14258	Glu-52 to Ser-60.	S0052: 1 and S0428: 1.	
HNGIP42	860518	4507	175 - 366	14259	Ile-42 to Gly-47.	S0052: 1 and S0428: 1.	
HNGIP72	575752	4508	46 - 156	14260		S0052: 3	
HNGIQ28	860510	4509	144 - 299	14261		S0052: 2	
HNGIQ43	715324	4510	166 - 417	14262	Gly-15 to Arg-20.	S0052: 2	
HNGIQ48	720944	4511	3 - 185	14263	His-1 to Glu-6, Gly-19 to Ser-24, Ile-28 to Pro-40.	S0052: 2	
HNGIQ66	506352	4512	1 - 105	14264	Gly-1 to Lys-14.	S0052: 2	
HNGIR34	719088	4513	236 - 349	14265		S0052: 2	
HNGIR92	524799	4514	82 - 243	14266	Arg-24 to Tyr-34.	S0052: 2	
HNGIS13	575753	4515	93 - 308	14267	His-11 to Ser-22, Leu-35 to Thr-41, Gln-45 to Gln-50.	S0052: 2	
HNGIS30	575758	4516	59 - 202	14268		S0052: 2	
HNGIT70	953890	4517	1 - 237	14269		S0052: 2	
HNGIU55	576804	4518	1 - 171	14270	Asn-39 to His-45.	S0052: 1 and S0053: 1.	
HNGIU78	666261	4519	799 - 578	14271	Leu-9 to Thr-14, Asn-69 to Glu-74.	L0803: 6, L0756: 5, L0731: 5, L0794: 3, L0755: 3, L0774: 2, L0805: 2, S0052: 2, L0746: 2, L0777: 2, L0598: 1, L0646: 1, L0766: 1, L0606: 1, L0661: 1, L0367: 1, L0666: 1, H0522: 1, L0742: 1, L0748: 1, L0740: 1, L0754: 1, L0745: 1, L0749: 1, L0779: 1, L0758: 1 and L0608: 1.	
HNGIV01	913687	4520	116 - 310	14272		H0580: 1 and S0052: 1.	
HNGIV24	766775	4521	1 - 210	14273		S0052: 1 and S0216: 1.	

HNGIV81	777970	4522	190 - 357	14274	Glu-19 to Thr-24, Thr-51 to Lys-56.	S0052: 1 and S0428: 1.	
HNGIW70	883086	4523	131 - 577	14275	Lys-5 to Asn-10.	S0052: 2 and S0428: 1.	
HNGIW73	764456	4524	63 - 290	14276	Gly-7 to Gln-12.	S0052: 1 and S0216: 1.	
HNGIY22	674660	4525	37 - 171	14277		S0052: 2	
HNGIY36	707323	4526	162 - 1	14278		S0052: 2	
HNGIY56	868065	4527	3 - 149	14279		S0052: 2	
HNGIY60	740404	4528	1 - 162	14280	Gly-1 to Lys-11, Gly-13 to Gly-25.	S0052: 2	8p23.1
HNGIY79	775229	4529	3 - 530	14281	Lys-31 to Gly-37, Pro-56 to Phe-65, Leu-77 to Asp-83, Pro-91 to Lys-97.	AR061: 10, AR089: 5 T0042: 1, S0052: 1, H0521: 1 and L0439: 1.	
HNGIY92	792737	4530	35 - 334	14282	Thr-65 to Trp-80.	S0052: 1 and S0428: 1.	
HNGIZ36	670962	4531	261 - 356	14283	Ser-27 to Tyr-32.	S0052: 2 and H0402: 1.	
HNGIZ56	733439	4532	186 - 305	14284		S0052: 2	
HNGIZ69	757599	4533	218 - 436	14285	Arg-15 to Asp-24.	S0052: 2	
HNGIZ82	668704	4534	147 - 371	14286	Met-67 to Lys-72.	S0052: 3, L0809: 1 and L0789: 1.	
HNGJA15	787570	4535	763 - 927	14287		S0052: 1 and S0216: 1.	
HNGJA18	666512	4536	157 - 306	14288		S0052: 2	
HNGJB34	936011	4537	257 - 436	14289	Arg-13 to Gly-18.	L0476: 1, S0052: 1 and S0053: 1.	
HNGJB52	724406	4538	203 - 445	14290	Pro-2 to Arg-7.	S0052: 1 and S0053: 1.	
HNGJB68	753060	4539	58 - 285	14291		S0052: 2	
HNGJC60	723380	4540	183 - 416	14292	Val-2 to Gly-9, Gly-11 to Gly-24.	S0052: 2	
HNGJC66	786924	4541	2 - 211	14293	Pro-9 to Leu-16, Ala-54 to Gly-62.	S0052: 2	
HNGJC76	739500	4542	1 - 132	14294		S0052: 2	
HNGJD15	660312	4543	1 - 93	14295		S0052: 2	
HNGJD61	774154	4544	375 - 569	14296	His-22 to Leu-27, Pro-43 to Gly-64.	S0052: 1 and S0428: 1.	
HNGJD71	760397	4545	24 - 371	14297	Ser-4 to Gly-10, Gly-36 to Asp-42.	S0052: 1 and S0428: 1.	108725, 120700, 133171, 136836,

						Leu-81 to Thr-91, Pro-93 to Gly-99, Ser-108 to Ala-114.				145981, 147141, 164953, 188070, 600957, 601238, 601846, 602216, 602477
HNGJD76	670948	4546	20 - 259	14298					S0052: 2 and S0053: 1.	
HNGJE16	661976	4547	3 - 212	14299					H0341: 1 and S0052: 1.	
HNGJE33	795219	4548	134 - 286	14300					S0052: 1 and S0428: 1.	
HNGJE40	960003	4549	74 - 304	14301		Asn-1 to Gly-7, Pro-21 to Leu-26.			H0265: 1 and S0052: 1.	
HNGJE56	669732	4550	222 - 374	14302					S0052: 2	
HNGJF26	666504	4551	2 - 241	14303		Leu-38 to Ala-43.			S0052: 2	
HNGJF65	698487	4552	401 - 589	14304					S0052: 2, H0306: 1 and L0790: 1.	
HNGJF73	683440	4553	217 - 408	14305					S0052: 2	
HNGJF79	775221	4554	1 - 156	14306					H0271: 1 and S0052: 1.	
HNGJG15	660308	4555	121 - 354	14307		Pro-44 to Leu-55, Arg-60 to Ser-66, Arg-69 to Trp-78.			S0052: 2	
HNGJG37	708703	4556	6 - 146	14308		Ser-1 to His-6.			S0052: 2	
HNGJG72	970797	4557	53 - 163	14309		Thr-16 to Tyr-24, Glu-29 to Gln-34.			S0052: 1 and H0445: 1.	
HNGJG89	778294	4558	85 - 252	14310					S0052: 2	
HNGJH09	415566	4559	39 - 179	14311					S0052: 1 and S0216: 1.	
	860378	9587	118 - 315	19339		Glu-52 to Lys-57.				
HNGJH11	860350	4560	1 - 222	14312		Gly-1 to Val-13, Ser-34 to Leu-39.			S0052: 3	
HNGJH35	952237	4561	3 - 167	14313		Ser-14 to Glu-20.			S0052: 1 and S0428: 1.	
HNGJH50	666843	4562	134 - 307	14314					S0052: 3	
HNGJH96	953648	4563	1 - 177	14315					S0052: 2	
HNGJI29	690667	4564	197 - 385	14316		Trp-1 to Asn-9.			S0052: 2	
HNGJI35	707328	4565	2 - 223	14317		Glu-16 to Arg-29, Ser-41 to Gly-48.			S0052: 4	
HNGJI42	465160	4566	158 - 418	14318					S0052: 2	
HNGJI54	465159	4567	1 - 381	14319		Glu-43 to Ala-49,			S0052: 3	

							Cys-57 to Ser-62, Arg-79 to Thr-86.			
HNGJJ71	760393	4568	48 - 308	14320			Pro-25 to Arg-32, Arg-38 to Gly-49.		S0052: 2	
HNGJJ77	772215	4569	94 - 357	14321			Ala-12 to Asn-17, Thr-23 to Gln-33.		S0052: 2	
HNGJJ83	781213	4570	221 - 376	14322			Arg-7 to Pro-21, Pro-40 to Gln-47.		S0052: 3	
HNGJJ22	597096	4571	1 - 285	14323			Thr-2 to Cys-13, Asp-24 to Gln-32.		S0052: 1, S0428: 1 and L0599: 1.	
HNGJJ51	725702	4572	124 - 53	14324					S0052: 2	
HNGJK04	615288	4573	76 - 222	14325			Ala-2 to Thr-18, Arg-23 to Gln-29.		S0052: 2	
HNGJK06	935548	4574	2 - 163	14326					S0052: 2	
HNGJK12	970686	4575	132 - 227	14327			Glu-1 to Ser-9.		S0002: 1 and S0052: 1.	
HNGJK23	707327	4576	3 - 83	14328					S0052: 2	
HNGJK29	663954	4577	1 - 174	14329			Cys-36 to Ser-41, Thr-48 to Arg-58.		S0052: 2	
HNGJK42	713810	4578	14 - 223	14330			Lys-3 to Val-9, Cys-24 to Phe-30, Pro-46 to Gln-57.		S0052: 2	
HNGJK50	860196	4579	69 - 398	14331			His-21 to Arg-26, Met-38 to Ala-47.		S0052: 1 and S0428: 1.	
HNGJK54	730713	4580	238 - 101	14332			Gln-1 to Ile-9.		S0052: 3	
HNGJK58	736080	4581	122 - 355	14333			His-16 to Lys-48.		S0052: 2	
HNGJK71	739323	4582	87 - 290	14334					S0052: 2	
HNGJK77	732737	4583	191 - 319	14335			His-1 to Trp-12, Ser-29 to Ile-34.		S0052: 3 and H0444: 1.	
HNGJK89	772218	4584	2 - 265	14336			Arg-2 to Gly-12.		S0052: 3	
HNGJL16	661977	4585	177 - 359	14337			Ser-1 to Ser-8, Asn-44 to Ala-54.		S0052: 2	
HNGJL26	681819	4586	1 - 369	14338			Gly-1 to Ser-7, Pro-12 to Glu-20.		S0052: 2	
HNGJL27	725295	4587	1 - 264	14339					L0639: 1, L0659: 1, L0517: 1, S0052: 1 and S0216: 1.	
HNGJL60	462981	4588	164 - 439	14340			Ser-47 to Asp-52.		S0052: 2	

HNGJL73	783518	4589	69 - 311	14341	Asn-1 to Leu-8.	S0052: 2		
HNGJL76	793537	4590	69 - 608	14342	Asp-36 to Arg-44.	S0052: 1, S0053: 1 and L0361: 1.	19q13.3-q13.4	113900, 126340, 126391, 130410, 134790, 138570, 160900, 173850, 191044, 258501, 600040, 600138, 602225, 602225
HNGJM20	964800	4591	2 - 157	14343		S0052: 2		
HNGJM35	707324	4592	3 - 116	14344	Arg-18 to Leu-25.	S0052: 2 and L0361: 1.		
HNGJM82	967328	4593	432 - 19	14345		S0134: 1, L0769: 1, L0794: 1, S0052: 1, S0428: 1, L0753: 1, L0592: 1 and L0599: 1.		
HNGJO10	964678	4594	140 - 301	14346	Gly-1 to Glu-6.	S0052: 2		
HNGJO35	707329	4595	2 - 403	14347	Arg-39 to Gly-49, Pro-51 to Thr-56.	S0052: 2		
HNGJO45	717069	4596	322 - 408	14348		S0052: 1 and S0053: 1.		
HNGJO73	668997	4597	208 - 360	14349	Ser-28 to Ser-33, Gly-39 to Thr-46.	H0318: 1 and S0052: 1.		
HNGJP03	860363	4598	95 - 376	14350	Cys-13 to Arg-22, Pro-29 to Lys-41.	S0052: 2		
HNGJP10	964668	4599	72 - 392	14351	Gly-12 to Lys-22, Asn-29 to Ser-34.	S0052: 1 and S0428: 1.		
HNGJP80	766278	4600	118 - 429	14352	Pro-10 to Gln-15.	H0305: 1, S0052: 1 and S0428: 1.		
HNGJQ14	881542	4601	2 - 370	14353		S0052: 1 and S0053: 1.		
HNGJQ23	789764	4602	192 - 314	14354	Gly-12 to Pro-18.	S0052: 1 and S0216: 1.		
HNGJQ25	924652	4603	3 - 170	14355		S0052: 2		
HNGJQ35	707326	4604	146 - 388	14356		S0052: 2		
HNGJR01	916555	4605	203 - 373	14357		H0090: 1 and S0052: 1.		
HNGJS24	677235	4606	178 - 333	14358		S0052: 2		
HNGJS45	720746	4607	63 - 1	14359		S0052: 2		
HNGJS53	728258	4608	256 - 444	14360		S0052: 2		
HNGJS64	746606	4609	16 - 357	14361	Ser-2 to Arg-8, Gly-14 to Trp-24, Thr-28 to Gln-33,	S0052: 2		

							Gly-40 to Phe-58, Gly-80 to Arg-94.			
HNGJS91	920755	4610	3 - 221	14362			His-1 to Asp-6, Ile-67 to Trp-72.		S0052: 2	
HNGJT36	888329	4611	122 - 352	14363			Asn-5 to Ser-12.		S0052: 2	
HNGJT72	775502	4612	1 - 288	14364			Thr-28 to Leu-33, Trp-61 to Pro-67.		S0052: 1 and S0428: 1.	
HNGJT93	792338	4613	158 - 343	14365			Thr-8 to Asp-15.		S0052: 2	
HNGJT95	953418	4614	120 - 254	14366					S0052: 2	
HNGJU36	708122	4615	651 - 457	14367					S0052: 3 and H0521: 1.	
HNGJU50	724416	4616	272 - 412	14368					S0052: 2	
HNGJU51	725703	4617	2 - 109	14369					S0052: 2	
HNGJU78	860347	4618	166 - 375	14370			Glu-21 to Asn-27.		S0052: 2	
HNGJV04	615283	4619	18 - 224	14371			Gln-28 to Gly-42.		S0052: 2	
HNGJV10	964672	4620	205 - 378	14372			Ser-5 to Val-10, Ala-27 to Gly-33.		S0052: 2	
HNGJV91	790213	4621	144 - 1	14373					S0052: 1 and S0216: 1.	
HNGKA62	876593	4622	97 - 345	14374			Arg-1 to Ser-6.		H0556: 1, S0428: 1, L0589: 1 and H0423: 1.	
HNGKB11	966119	4623	3 - 311	14375			Gly-2 to Pro-17, Pro-31 to Gly-48.		S0428: 2	
HNGKB25	944424	4624	89 - 445	14376			Trp-1 to Gln-8, Thr-16 to Trp-22, Ser-67 to Ser-75.		AR061: 4, AR089: 4 S0114: 1, H0376: 1, S0428: 1 and L0748: 1.	
HNGKB78	971110	4625	98 - 322	14377			Lys-13 to Thr-18, Ser-24 to Ser-29.		S0428: 1, S0053: 1 and S0216: 1.	
HNGKB93	791760	4626	63 - 305	14378			Arg-6 to Gly-21, Thr-34 to Pro-39, Pro-43 to Pro-50.		H0087: 1 and S0428: 1.	
HNGKD55	860343	4627	359 - 547	14379			Met-40 to Ser-45.		S0428: 2	
HNGKD94	793414	4628	164 - 364	14380					H0271: 1, S0052: 1 and S0428: 1.	
HNGKE05	860320	4629	297 - 497	14381			Arg-6 to Gly-12, Arg-36 to Arg-47.		S0428: 2	
HNGKE07	952221	4630	2 - 361	14382			Lys-56 to Ser-62.		S0428: 2, S0053: 1 and S0216: 1.	113900, 126340, 126391, 130410,

									134790, 138570, 160900, 173850, 191044, 258501, 600040, 600138, 602225, 602225
HNGKE52	812714	4631	304 - 579	14383		Pro-32 to Gln-38, Pro-56 to Leu-66.	S0428: 2		
HNGKE73	860312	4632	251 - 631	14384			S0428: 2 and S0052: 1.		
HNGKE89	786257	4633	268 - 420	14385			S0428: 2		
HNGKE91	789685	4634	137 - 274	14386		Glu-29 to Phe-35.	S0428: 2 and S0052: 1.		
HNGKE93	791623	4635	3 - 311	14387		Gly-1 to Pro-7.	H0255: 1 and S0428: 1.		
HNGKF01	915247	4636	59 - 352	14388		Pro-33 to Pro-49, Pro-56 to Pro-63.	S0428: 2		
HNGKF11	965047	4637	6 - 185	14389			S0428: 2 and S0052: 1.		
HNGKF83	780453	4638	1 - 243	14390		His-5 to Gly-15, Phe-22 to Arg-28, Ser-45 to Gly-54, Ser-64 to Lys-71.	S0428: 2		
HNGKG43	958487	4639	287 - 640	14391		Lys-41 to Asn-46, Lys-55 to Thr-61, Ser-77 to Thr-84.	S0428: 1 and S0216: 1.		
HNGKG61	860317	4640	57 - 233	14392		Thr-6 to Gly-17.	S0428: 2 and S0052: 1.		
HNGKH04	926987	4641	318 - 1	14393			S0052: 1 and S0428: 1.		
HNGKI30	860205	4642	20 - 328	14394		Phe-33 to Gly-41, Glu-58 to Lys-63, Arg-78 to Ser-83, Pro-92 to Leu-101.	S0428: 2 5q32-q33	109690, 109690, 131400, 138491, 138491, 138491, 154500, 180071, 181460, 222600, 222600, 222600, 234000, 272750, 600807, 601411, 601596, 602089	
HNGKI36	784854	4643	3 - 206	14395		Ala-24 to Ser-30, Gln-61 to Gln-68.	S0428: 2		
HNGKI90	787378	4644	2 - 169	14396			S0428: 2		
HNGKI93	791671	4645	42 - 515	14397		Leu-26 to Arg-32.	H0255: 1 and S0428: 1.		



HNGKJ01	915231	4646	55 - 444	14398	Ile-1 to Thr-26, Arg-36 to Ala-42, Glu-61 to Lys-66, Arg-76 to Arg-81, Val-104 to Ile-117, Gln-119 to Gly-127.	S0428: 1 and S0053: 1.		
HNGKJ38	806053	4647	57 - 356	14399	Glu-24 to Pro-31.	S0428: 2, H0264: 1, S0052: 1 and S0053: 1.		
	974222	9588	426 - 184	19340	Ser-26 to His-31, Ala-65 to Glu-71.			
HNGKJ51	883072	4648	1 - 315	14400	Asp-1 to Arg-7.	S0428: 2		
HNGKK35	806051	4649	49 - 285	14401	Pro-72 to Arg-79.	S0428: 2		
HNGKO11	966093	4650	123 - 1	14402		S0428: 2		
HNGKP29	860305	4651	3 - 203	14403	Gln-5 to Pro-10.	S0052: 1 and S0428: 1.		
HNGKS06	974356	4652	148 - 372	14404		H0069: 1 and S0428: 1.		
HNGKT08	958311	4653	175 - 369	14405		S0052: 1 and S0428: 1.		
HNGKT69	860302	4654	159 - 374	14406		S0052: 1 and S0428: 1.		
HNGKU04	926948	4655	149 - 289	14407	Gln-1 to Lys-13.	S0052: 1 and S0428: 1.		
HNGKV01	915218	4656	65 - 280	14408	Phe-14 to Gln-22, Gly-37 to Cys-43, Met-47 to Lys-53, Glu-56 to Ser-62.	S0052: 1 and S0428: 1.		
HNGLA54	860206	4657	1 - 153	14409	Pro-23 to Cys-34.	S0428: 2		
HNGLC01	915288	4658	346 - 579	14410		S0052: 1 and S0428: 1.		
HNGLC46	775300	4659	63 - 257	14411	Pro-2 to Gly-20.	S0052: 1 and S0428: 1.		
HNGLD34	830026	4660	97 - 210	14412	Pro-14 to Gly-23.	S0428: 2 and L0750: 1.		
HNGLE25	860260	4661	2 - 313	14413	Thr-1 to Trp-6, Pro-80 to Ser-88.	S0428: 2		
HNGLE52	835972	4662	181 - 396	14414		S0052: 1 and S0428: 1.		
HNGLE74	860263	4663	163 - 468	14415	Pro-1 to Asn-6.	S0052: 1 and S0428: 1.		
HNGLF03	922969	4664	320 - 472	14416	Glu-1 to Ser-13, Glu-24 to Gly-30.	H0271: 1, S0052: 1 and S0428: 1.		
HNGLF08	958312	4665	199 - 465	14417	Ser-11 to Trp-21, Arg-74 to Glu-80.	S0428: 2, S0052: 1 and L0731: 1.		
HNGLG06	839088	4666	234 - 689	14418	Asp-73 to Gly-79, Val-107 to Ile-114.	AR061: 7, AR089: 2 H0318: 1, S0144: 1 and		

									Met-120 to Tyr-126.	S0428: 1.		
HNGHLH72	785570	4667	280 - 453	14419					Ser-9 to Ser-25.	S0052: 1 and S0428: 1.		
HNGLH82	954140	4668	105 - 404	14420						S0052: 3 and S0428: 1.		
HNGLIJ04	954943	4669	332 - 496	14421						S0052: 1 and S0428: 1.		
HNGLIJ20	806045	4670	78 - 323	14422						S0428: 2		
HNGLK13	785685	4671	23 - 238	14423						S0052: 1 and S0428: 1.		
HNGLK65	795280	4672	301 - 522	14424						S0428: 2		
HNGLK90	795225	4673	234 - 491	14425				Tyr-1 to Cys-9.		S0428: 2		
HNGLL03	923028	4674	220 - 420	14426						S0052: 1 and S0428: 1.		
HNGLL11	966105	4675	35 - 190	14427						S0052: 1 and S0428: 1.		
HNGLL24	859922	4676	330 - 584	14428				Lys-1 to Gly-10, Met-12 to Gln-18, Arg-48 to Pro-61.		S0428: 1 and S0216: 1.		
HNGLL31	789193	4677	139 - 288	14429				Glu-29 to Trp-34.		H0179: 1 and S0428: 1.		
HNGLL41	845274	4678	734 - 288	14430				Gly-1 to Gly-8.		AR051: 29, AR050: 25, AR054: 17 S0428: 2		
	873128	9589	157 - 456	19341				Pro-21 to Tyr-32.				
HNGLL67	860253	4679	46 - 336	14431						S0052: 1 and S0428: 1.		
HNGLL91	789743	4680	140 - 421	14432				Ser-12 to Glu-25.		S0428: 3		
HNGLM06	919222	4681	36 - 122	14433				Asp-1 to Tyr-8.		S0428: 2		
HNGLO10	963504	4682	13 - 285	14434						S0052: 1 and S0428: 1.		
HNGLO70	779223	4683	49 - 213	14435				Gly-19 to Leu-30.		S0428: 2		
HNGLO80	775504	4684	505 - 741	14436				Arg-6 to Ile-11.		S0052: 1 and S0428: 1.		
HNGLO86	780484	4685	138 - 527	14437				Met-11 to Arg-16.		S0428: 2 and L0748: 1.		
HNGLO92	924891	4686	73 - 666	14438				Ser-2 to Trp-8, Arg-15 to Ser-25, Pro-41 to Glu-46, Gln-51 to Asn-57, Gly-106 to Ala-113, Pro-124 to Pro-134.		S0052: 1 and S0428: 1.		
HNGLR39	835586	4687	434 - 679	14439				Phe-38 to Glu-48.		S0428: 3		
HNGLR91	789707	4688	3 - 347	14440				Thr-29 to Ser-41, Lys-54 to Cys-67.		S0052: 1 and S0428: 1.		
HNGLS86	784860	4689	259 - 405	14441						S0052: 1 and S0428: 1.		

HNGLT67	958777	4690	377 - 547	14442			H0589: 1 and S0428: 1.		
HNGLX63	934371	4691	3 - 203	14443			S0428: 2		
HNGMA01	915306	4692	251 - 424	14444		Pro-31 to Gly-36, Lys-43 to Lys-49.	S0428: 2		
HNGMA49	860244	4693	336 - 94	14445			S0428: 2 and S0052: 1.		
HNGMB26	860166	4694	33 - 317	14446		Pro-24 to Gln-29.	S0428: 2		
HNGMB33	773752	4695	263 - 541	14447		Ala-5 to Arg-13, Arg-31 to Gly-48, Gly-52 to Thr-58.	S0052: 1 and S0428: 1.		
HNGMC51	860243	4696	11 - 454	14448		Asn-1 to Tyr-6.	H0402: 1, S0428: 1 and L0439: 1.		
HNGMD03	923041	4697	121 - 372	14449			S0428: 2		
HNGMD04	927026	4698	36 - 338	14450		Pro-41 to Leu-47, Thr-50 to Ala-59.	S0428: 2		
HNGME93	793483	4699	16 - 252	14451		Ala-12 to Gln-17, Pro-59 to Arg-67.	S0428: 2		
HNGMF04	860242	4700	353 - 592	14452		Gln-26 to Lys-36.	S0052: 1 and S0428: 1.		
HNGMF11	966114	4701	1 - 159	14453			S0428: 2		
HNGMF46	795236	4702	226 - 2	14454			S0428: 2 and H0023: 1.		
HNGMF79	772974	4703	66 - 287	14455		Lys-4 to Gly-21, Glu-57 to Thr-62.	S0428: 2		
HNGMF94	966091	4704	147 - 389	14456		Pro-34 to Asp-46, Arg-52 to Lys-57.	S0428: 2		
HNGMG06	934318	4705	111 - 254	14457			S0428: 2		
HNGMG08	958361	4706	18 - 218	14458			S0428: 2		
HNGMH80	775503	4707	335 - 487	14459		Pro-31 to Leu-45.	S0114: 1 and S0428: 1.		
HNGMH93	791725	4708	232 - 429	14460		Arg-1 to Met-6, Phe-35 to Leu-40, Pro-55 to Arg-66.	S0052: 1 and S0428: 1.		
HNGMJ04	923011	4709	284 - 156	14461			S0428: 2		
HNGMJ89	786340	4710	107 - 463	14462		Ala-63 to Trp-69.	AR089: 15, AR061: 7 S0428: 2		
HNGML07	952224	4711	214 - 453	14463		Ala-1 to Glu-19, Gln-25 to Trp-36, Met-53 to Gly-66.	S0428: 2		
HNGML53	860240	4712	86 - 433	14464		Ser-35 to Pro-41.	S0428: 2		

HNGMM51	860201	4713	121 - 501	14465	Arg-8 to Ser-13, Ala-31 to Cys-37, Thr-76 to Glu-83, Leu-93 to Arg-99.	S0428: 2		
HNGMM54	933358	4714	2 - 220	14466	Gly-11 to Asp-33.	H0250: 2 and S0428: 1.		
HNGMM87	806036	4715	138 - 437	14467	Asn-10 to Arg-22, Asn-91 to Ser-96.	H0271: 1 and S0428: 1.		
HNGMV73	806000	4716	250 - 519	14468	Glu-1 to Leu-11.	S0428: 2		
HNGMW52	860231	4717	176 - 595	14469	Thr-1 to Ser-7.	S0428: 2		
HNGMW92	790852	4718	226 - 618	14470	Asn-8 to Arg-17, Asn-35 to Tyr-40.	S0052: 1 and S0428: 1.		
HNGMX80	786255	4719	2 - 268	14471	Lys-13 to Trp-23, Arg-36 to Lys-41.	S0428: 2, H0610: 1, H0271: 1 and S0052: 1.		
HNGMX87	835612	4720	3 - 380	14472	Pro-31 to Asp-58, Ser-77 to Gln-87, Pro-89 to Leu-95.	S0428: 2		
HNGMX91	789680	4721	79 - 309	14473	Ser-1 to Leu-6.	S0052: 1 and S0428: 1.		
HNGNA23	779201	4722	1 - 135	14474	Glu-1 to Ser-20.	S0428: 2		
HNGNB01	915258	4723	9 - 83	14475	Phe-1 to Thr-10.	S0428: 2		
HNGNE65	963425	4724	136 - 561	14476	Val-1 to Gly-6.	S0428: 2		
HNGNF40	861967	4725	1 - 237	14477		H0300: 2 and S0428: 1.		
HNGNG37	847818	4726	333 - 506	14478	Leu-49 to Arg-54.	S0428: 2, L0517: 1 and S0052: 1.		
HNGNH03	922831	4727	117 - 389	14479	Asn-1 to Pro-21, Ser-33 to Trp-42, Thr-52 to Lys-57, Pro-69 to Trp-89.	H0556: 1 and S0428: 1.		
HNGNI04	926985	4728	214 - 492	14480	Ser-27 to Gln-38.	S0428: 2		
HNGNI52	781913	4729	146 - 313	14481	Ala-1 to Gly-6, Thr-12 to Thr-19.	S0052: 1, S0428: 1 and S0053: 1.		
HNGNI75	860168	4730	35 - 319	14482	Arg-45 to Glu-50, Thr-62 to Asn-72.	S0428: 2		
HNGNI94	893899	4731	2 - 370	14483	Pro-9 to Ser-14, Ser-46 to Ala-53, Ala-69 to Ala-86, Arg-96 to Pro-108.	S0052: 2 and S0428: 1.		

HNGNM24	841902	4732	67 - 243	14484	Glu-37 to Arg-42.	H0057: 1 and S0428: 1.	
HNGNO03	860155	4733	269 - 475	14485	Ala-39 to Arg-46.	S0428: 2	
HNGNR04	926870	4734	229 - 387	14486		S0052: 1 and S0428: 1.	
HNGNS10	963470	4735	575 - 733	14487		S0428: 2	
HNGNS58	788971	4736	40 - 210	14488		S0052: 1 and S0428: 1.	
HNGNS90	787388	4737	283 - 465	14489		S0052: 1 and S0428: 1.	
HNGNV80	908167	4738	39 - 389	14490	Pro-40 to Arg-54, Pro-57 to Gly-72, Glu-74 to Ala-81, Pro-89 to His-96, Leu-99 to Glu-104.	S0428: 2	
HNGNW04	860199	4739	116 - 253	14491	Arg-22 to Glu-36.	H0486: 1 and S0428: 1.	
HNGNW85	783747	4740	3 - 248	14492		H0402: 1 and S0428: 1.	
HNGNX37	806018	4741	321 - 539	14493		S0428: 2	
HNGNX65	806042	4742	140 - 346	14494	Glu-48 to Cys-54.	S0428: 2	
HNGNZ01	860158	4743	261 - 398	14495		S0428: 2 and S0052: 1.	
HNGNZ38	790926	4744	110 - 280	14496		S0216: 2 and S0428: 1.	
HNGNZ91	839887	4745	88 - 399	14497		S0428: 3 and L0377: 1.	
HNGOA11	966082	4746	12 - 224	14498	Leu-39 to Gly-44.	S0052: 1 and S0428: 1.	
HNGOA82	779154	4747	285 - 449	14499		S0052: 1 and S0428: 1.	
HNGOB95	791700	4748	1 - 144	14500	Glu-18 to Glu-25, Ser-36 to Val-42.	S0428: 2	
HNGOD68	790805	4749	43 - 282	14501	Asp-73 to Phe-80.	S0428: 2	
HNGOE64	860143	4750	192 - 563	14502		S0428: 3	
HNGOF50	796548	4751	140 - 367	14503	Ser-10 to Leu-19.	S0428: 1 and S0053: 1.	
HNGOF84	782188	4752	1 - 333	14504	Gly-1 to Gly-9, Thr-57 to Thr-71, Thr-77 to Ser-82.	S0428: 1 and S0216: 1.	
HNGOF85	783717	4753	417 - 725	14505		H0402: 1, S0428: 1 and S0053: 1.	
HNGOG49	971178	4754	1 - 255	14506		S0052: 1 and S0428: 1.	
HNGOH42	958943	4755	337 - 519	14507	Pro-7 to Arg-12.	H0580: 1 and S0428: 1.	
HNGOI86	806013	4756	456 - 193	14508	Lys-43 to Thr-58, Asp-77 to Arg-88.	S0428: 2	
HNGOJ13	921433	4757	85 - 339	14509	His-5 to Asn-16,	S0052: 1 and S0428: 1.	

HNGOJ64	860193	4758	2 - 304	14510	Tyr-61 to Gly-71.	S0428: 2	
HNGOK59	789689	4759	108 - 242	14511	Ser-14 to Arg-25.	S0428: 2	
HNGOK86	784813	4760	203 - 442	14512	Pro-22 to Gln-28.	S0116: 1 and S0428: 1.	
HNGOL14	860185	4761	3 - 143	14513		S0052: 1 and S0428: 1.	
HNGOO22	953888	4762	3 - 155	14514		S0052: 1 and S0428: 1.	
HNGOP04	926972	4763	230 - 406	14515		S0428: 2	
HNGOP10	963483	4764	289 - 438	14516	Phe-4 to Thr-10, Pro-23 to Ser-30.	L0521: 2, H0305: 1, S0002: 1, S0428: 1, L0758: 1 and L0759: 1.	
HNGOS22	860176	4765	69 - 314	14517	Pro-8 to Ser-28.	S0134: 1 and S0428: 1.	
HNGOV03	922963	4766	53 - 286	14518	Phe-33 to Leu-39.	S0428: 2	
HNGOV65	921416	4767	2 - 187	14519		S0052: 2 and S0428: 1.	
HNGOW13	926929	4768	2 - 310	14520	Gln-11 to His-23, Glu-25 to Gly-41.	S0428: 2	
HNGOY01	915210	4769	162 - 359	14521	Thr-19 to Cys-27, Val-33 to Gly-39.	S0428: 2	
HNGOY10	915012	4770	3 - 386	14522	Ser-23 to Ala-30, Ala-44 to Ala-54.	H0457: 1 and S0428: 1.	
HNGOZ17	880777	4771	118 - 246	14523		S0052: 1 and S0428: 1.	
HNGPH12	969683	4772	174 - 353	14524		S0428: 2 and S0053: 1.	
HNGPI08	947384	4773	461 - 655	14525	Glu-17 to Gly-23.	S0428: 2 and L0766: 1.	
HNGPJ23	855983	4774	250 - 507	14526	Pro-1 to Leu-7, Lys-14 to Trp-22, Leu-24 to Gly-30, Ser-47 to Gly-53, Gln-71 to Leu-86.	H0444: 2 and S0428: 1.	
HNGPJ51	805997	4775	136 - 288	14527		S0428: 2	
HNGPL91	959740	4776	177 - 350	14528	Ala-9 to Trp-16.	S0052: 1 and S0428: 1.	
HNGPN01	913782	4777	105 - 413	14529	Ser-17 to Ser-25.	S0428: 2	
HNGPN46	954997	4778	331 - 588	14530	Lys-1 to Asp-7.	S0428: 2	
HNGPP61	860145	4779	119 - 475	14531		S0428: 2	
HNGPR03	949269	4780	3 - 140	14532	Gln-39 to Cys-45.	S0428: 2	
HNGPS10	963469	4781	3 - 239	14533		S0428: 1 and S0216: 1.	
HNHAB29	860141	4782	2 - 145	14534	Arg-16 to Gly-23.	S0053: 2	

HNHAB93	527921	4783	3 - 149	14535	Gly-1 to Gly-9, Glu-24 to Gly-35.	S0053: 2	
HNHAF77	527971	4784	7 - 135	14536		S0053: 2	
HNHAG50	527815	4785	22 - 180	14537	Gly-10 to Trp-22, Pro-25 to Cys-32, Asp-35 to Ser-43.	S0053: 2	
HNHAG51	725898	4786	10 - 174	14538		S0053: 2	
HNHAG64	527809	4787	76 - 231	14539		S0053: 2	
HNHAH38	860118	4788	140 - 388	14540	Tyr-34 to Thr-39.	S0053: 2	
HNHAH84	527806	4789	89 - 235	14541	Lys-1 to Trp-10.	S0053: 2	
HNHAI11	967668	4790	81 - 377	14542	Gln-37 to Asn-42, Arg-47 to Lys-67.	L0766: 2, S0053: 2 and L0758: 1.	
HNHAI15	860128	4791	2 - 58	14543		S0053: 2	
HNHAI68	527572	4792	85 - 165	14544		S0053: 2	
HNHAJ59	703576	4793	274 - 417	14545		S0053: 1 and S0216: 1.	
HNHAK83	574391	4794	25 - 219	14546		S0053: 2	
HNHAP79	574384	4795	2 - 139	14547		S0053: 2	
HNHAW75	515480	4796	240 - 1	14548	Lys-19 to Gln-25, Leu-68 to Gly-73.	S0053: 2	
HNHBC30	693318	4797	93 - 230	14549		S0053: 1 and H0423: 1.	
HNHBE19	724404	4798	56 - 190	14550		S0053: 2	
HNHBH62	574387	4799	1 - 240	14551	Ser-1 to Phe-10, Leu-14 to Ile-19, Ser-41 to Ser-47, Ala-61 to Gly-66.	S0053: 2	
HNHBH72	577334	4800	241 - 399	14552	Thr-19 to Ser-27.	S0053: 2	
HNHBK22	574305	4801	66 - 272	14553	Arg-1 to Arg-7, Ala-16 to Ser-24.	S0053: 2 and S0216: 1.	
HNHBK59	959771	4802	2 - 286	14554	Arg-2 to Gly-11.	S0053: 2	
HNHBK80	721688	4803	82 - 240	14555		S0053: 2	
HNHBM63	574310	4804	135 - 302	14556		H0271: 1 and S0053: 1.	
HNHBM66	860119	4805	24 - 374	14557	Thr-42 to His-47, Leu-55 to Trp-60, Thr-75 to His-83, Pro-85 to Glu-96.	S0053: 2	

HNHBO20	793416	4806	460 - 666	14558	Tyr-8 to Ser-16.	S0052: 1, S0428: 1 and S0053: 1.	
HNHBO71	868059	4807	2 - 151	14559		S0053: 2	
HNHBO83	526746	4808	109 - 237	14560	Glu-22 to Val-33.	S0053: 2	
HNHBQ53	574090	4809	14 - 175	14561		S0053: 2	
HNHBS07	953850	4810	57 - 173	14562		S0053: 2	
HNHBS23	574048	4811	92 - 328	14563	Thr-1 to Lys-6, Gly-44 to Gly-51.	S0053: 2	
HNHBS38	925693	4812	493 - 963	14564	Val-23 to Asn-43, Ser-91 to Gln-107.	H0650: 1, S0428: 1 and S0053: 1.	
HNHBU20	669866	4813	129 - 257	14565	Lys-21 to Phe-27.	S0053: 2	
HNHBU21	574030	4814	138 - 332	14566	Thr-14 to Met-26.	S0053: 3	
	723352	9590	246 - 401	19342	Leu-12 to Ser-18.		
HNHBU37	574139	4815	3 - 338	14567	Thr-1 to Leu-8, Thr-50 to Lys-57.	S0053: 2	
HNHBU79	597123	4816	268 - 89	14568		S0053: 2	
HNHBU82	577193	4817	185 - 394	14569	Lys-8 to Arg-13, Ile-24 to Tyr-29, Arg-49 to Arg-60.	S0053: 2	
HNHBU91	765815	4818	62 - 232	14570	Thr-1 to Leu-6.	S0053: 2	
HNHBU92	753550	4819	12 - 254	14571	Glu-8 to Leu-16.	S0053: 3	
HNHBU93	757745	4820	71 - 229	14572		S0053: 2	
HNHBV55	574026	4821	85 - 219	14573	Leu-1 to Lys-8, Arg-19 to Cys-29.	S0053: 2	
HNHBY06	936012	4822	28 - 210	14574		S0053: 1 and S0216: 1.	
HNHBY45	774280	4823	213 - 389	14575		S0053: 1 and S0216: 1.	
HNHBY60	964712	4824	2 - 187	14576	Pro-7 to Ala-12.	S0053: 3	
HNHBY83	694401	4825	94 - 492	14577	His-21 to Asp-38, Glu-41 to Ile-53.	S0053: 2	
HNHBZ03	924873	4826	152 - 349	14578		S0053: 2	
HNHCC42	577343	4827	143 - 274	14579	Gly-15 to His-20.	S0053: 2	
HNHCD63	574309	4828	102 - 359	14580		S0053: 2	
HNHCE68	574028	4829	100 - 387	14581	Ser-4 to Gly-12.	S0053: 2	
HNHCJ25	679154	4830	3 - 311	14582	Arg-1 to Asn-13, Pro-35 to Ala-41.	S0053: 2	



HNHCJ35	860112	4831	3 - 182	14583			S0053: 2	
HNHCJ39	574084	4832	1 - 129	14584	Lys-14 to Ala-19, Ser-27 to Ser-34.		S0053: 2 and L0789: 1.	
HNHCJ68	753558	4833	65 - 250	14585	Lys-1 to Ala-11, Pro-19 to Lys-28, Ser-36 to Trp-41.		S0053: 2	
HNHCJ71	760565	4834	79 - 198	14586	Ser-13 to Cys-23.		S0053: 1 and S0216: 1.	
HNHCJ80	786033	4835	305 - 427	14587	Lys-12 to Arg-20.		S0053: 1 and H0436: 1.	
HNHCJ20	780527	4836	3 - 257	14588	Leu-52 to Ser-60, Gln-63 to Leu-68.		AR050: 182, AR054: 144, AR051: 129 H0060: 1, S0428: 1 and S0053: 1.	
HNHCL38	574082	4837	1 - 225	14589	Gly-1 to Leu-11.		S0053: 2	
HNHCL47	719476	4838	50 - 277	14590	Ala-1 to Glu-9, Ser-14 to Leu-19, Gly-25 to Leu-41.		S0053: 2	
HNHCM80	573010	4839	9 - 293	14591			S0052: 1 and S0053: 1.	
HNHCN70	577186	4840	62 - 193	14592			S0053: 2	
HNHCO27	574337	4841	64 - 198	14593	Val-5 to Gln-14.		S0053: 2	
HNHCO48	860641	4842	26 - 361	14594	Ser-11 to Ala-24, Glu-30 to Lys-37, Cys-45 to Gly-54, Thr-101 to Ser-112.		S0052: 2 and S0053: 1.	
HNHCO64	574147	4843	61 - 246	14595			S0053: 2	
HNHCP18	666844	4844	2 - 172	14596	Pro-1 to Lys-6.		S0053: 2	
HNHCP22	934307	4845	284 - 586	14597	Phe-46 to Pro-54, Cys-69 to Glu-74.		S0428: 1 and S0053: 1.	
HNHCP37	866950	4846	197 - 373	14598			S0114: 1 and S0053: 1.	
HNHCP78	506696	4847	3 - 194	14599	Leu-3 to Arg-9.		S0053: 2	
HNHCP88	574341	4848	1 - 240	14600			S0053: 2	
HNHCQ70	757410	4849	3 - 263	14601			S0428: 1, S0053: 1, L0748: 1 and L0754: 1.	
HNHCU18	574394	4850	32 - 130	14602			S0053: 2	
HNHCU42	850918	4851	307 - 666	14603	Met-34 to Gly-43, Val-56 to Arg-62, Glu-85 to Gly-90.		H0457: 3, H0305: 1, H0589: 1 and S0053: 1.	

HNHCU57	735005	4852	3 - 239	14604	Gln-58 to Gly-65.	S0053: 2	
HNHCV72	766213	4853	221 - 343	14605		S0053: 1, S0216: 1 and L0439: 1.	
HNHCZ07	953881	4854	18 - 176	14606	Ala-33 to Trp-39.	H0650: 1 and S0053: 1.	
HNHCZ23	574325	4855	204 - 332	14607		S0053: 2	
HNHDA07	855988	4856	149 - 394	14608	Ser-1 to Ala-10, Leu-12 to Met-19, Ser-37 to Ser-46, Cys-52 to Leu-58, Pro-74 to Tyr-80.	S0053: 1, S0216: 1 and H0444: 1.	
HNHDA79	574350	4857	3 - 152	14609	Gln-15 to Gly-20.	S0053: 2	
HNHDA88	574150	4858	1 - 90	14610		S0053: 2	
HNHDB11	574323	4859	260 - 442	14611	Trp-7 to Gly-15, Thr-17 to Gln-31, Ser-40 to Ser-45.	S0053: 2	
HNHDB23	676290	4860	76 - 303	14612		S0053: 2	
HNHDB46	574329	4861	146 - 379	14613		S0053: 2	
HNHDB93	800661	4862	1 - 72	14614		S0053: 1 and S0216: 1.	
HNHDC26	574304	4863	145 - 300	14615		S0053: 2	
HNHDC47	708705	4864	22 - 189	14616		S0053: 2	
HNHDC83	577339	4865	192 - 434	14617	Ser-1 to Asn-13.	S0053: 2	
HNHDC95	734794	4866	13 - 105	14618		S0053: 2	
HNHDE38	709277	4867	132 - 260	14619	Ser-26 to Cys-31.	S0053: 1 and H0521: 1.	
HNHDF31	968249	4868	8 - 130	14620	Leu-13 to Ser-20, Glu-28 to Ser-33.	S0053: 2	
HNHDF48	574385	4869	61 - 174	14621		S0053: 2	
HNHHD06	936046	4870	2 - 226	14622	Arg-18 to Arg-23.	S0053: 2	
HNHHD60	860101	4871	49 - 210	14623		S0053: 2	
HNHDL62	577701	4872	29 - 193	14624	Gly-48 to Arg-54.	S0053: 2	
HNHDL90	789082	4873	116 - 397	14625	Arg-1 to Glu-6, Gln-25 to Gly-30, Pro-44 to Gly-56, Gly-60 to Trp-65.	S0053: 1 and S0216: 1.	
HNHDL94	773592	4874	201 - 326	14626	Gly-7 to Tyr-13.	S0053: 2	
HNHDM03	924713	4875	1 - 285	14627		S0053: 1 and S0216: 1.	

HNHDM40	711352	4876	93 - 254	14628	His-27 to Lys-38.	S0053: 2	
HNHDM50	724550	4877	33 - 281	14629	Cys-8 to Trp-19.	S0053: 2	
HNHDM74	506621	4878	263 - 436	14630	Asn-29 to Ser-35.	S0053: 2	
HNHDM27	573388	4879	2 - 187	14631		S0053: 2	
HNHDM79	735007	4880	178 - 273	14632		S0052: 1 and S0053: 1.	
HNHDP04	859988	4881	241 - 750	14633	Gly-17 to Gly-23.	S0053: 4	
HNHDP29	746093	4882	172 - 354	14634		S0053: 1 and S0216: 1.	
HNHDQ11	967334	4883	332 - 496	14635	Arg-8 to Gln-14, Lys-19 to Trp-38.	H0486: 1 and S0053: 1.	
HNHDQ17	573328	4884	132 - 293	14636	Ile-1 to Val-10.	S0053: 3	
HNHDQ35	707334	4885	1 - 126	14637	Lys-1 to Asn-16, Lys-18 to Cys-28.	H0264: 1 and S0053: 1.	
HNHDQ39	704560	4886	2 - 151	14638	Gln-1 to Trp-9.	S0053: 2	
HNHDQ56	577256	4887	322 - 507	14639	Leu-24 to Arg-29.	S0053: 3	
HNHDQ65	573357	4888	148 - 258	14640		S0053: 2	
HNHDQ71	496246	4889	143 - 400	14641		S0053: 2	
HNHDQ93	923817	4890	37 - 231	14642		S0053: 1 and H0445: 1.	
HNHDR10	968082	4891	1 - 189	14643	Asp-7 to Pro-14, Arg-19 to Met-27.	S0053: 2	
HNHDR28	685580	4892	25 - 240	14644	Glu-16 to Arg-34.	S0053: 2	
HNHDR71	575480	4893	51 - 230	14645	Arg-6 to Tyr-11, Asp-19 to Arg-26.	S0053: 2	
HNHDS27	683585	4894	70 - 213	14646	Tyr-39 to Asn-48.	S0053: 3	
HNHDS83	573347	4895	1 - 189	14647		S0053: 2	
HNHDS88	573349	4896	184 - 348	14648		S0053: 2	
HNHDT01	917004	4897	159 - 335	14649		H0271: 1 and S0053: 1.	
HNHDT28	887158	4898	2 - 397	14650		AR054: 9, AR051: 4, AR050: 2 S0053: 4	
HNHDT42	574455	4899	91 - 258	14651	Gln-1 to Phe-16.	S0052: 1 and S0053: 1.	
HNHDT54	728871	4900	75 - 407	14652	Pro-64 to Trp-76.	H0580: 1 and S0053: 1.	
HNHDT83	717796	4901	5 - 442	14653	Ser-1 to Asp-8, Pro-46 to Asp-51, Gly-84 to Pro-92.	S0053: 2	
HNHDTV50	506622	4902	3 - 209	14654	His-1 to Asn-7.	S0053: 2	

HNHDV84	750262	4903	3 - 242	14655	Ser-21 to Gln-35.	S0053: 2	
HNHDW78	723189	4904	1 - 285	14656	Leu-13 to Trp-25.	S0053: 2, S0052: 1 and S0428: 1.	
HNHDX80	779334	4905	98 - 298	14657	His-7 to Ser-12.	S0053: 1 and S0216: 1.	
HNHDX84	615272	4906	3 - 119	14658	His-1 to Ser-6.	S0053: 2	
HNHDY18	573329	4907	120 - 242	14659	Gly-11 to Met-16.	S0053: 2	
HNHDY37	582473	4908	19 - 123	14660	Asn-1 to Leu-20.	H0305: 1, L0761: 1, L0791: 1 and S0053: 1.	
HNHDY45	576776	4909	142 - 282	14661	Glu-1 to Gly-6, Val-40 to Phe-47.	S0052: 2 and S0053: 1.	
HNHDY50	924211	4910	2 - 175	14662		S0053: 2	
HNHDY54	945708	4911	1 - 546	14663	Ser-25 to Gly-33, Ser-43 to Trp-52.	AR061: 8, AR089: 2 S0053: 2	
HNHDY83	795954	4912	1 - 255	14664	Gly-1 to Asn-6, Pro-19 to Leu-28.	S0053: 2	
HNHDZ14	506738	4913	3 - 200	14665	His-1 to Pro-7, Ser-44 to Thr-50.	S0053: 2	
HNHDZ26	419716	4914	96 - 431	14666	Trp-1 to His-6, Leu-25 to Trp-37.	S0053: 2 and L0774: 1.	
HNHDZ69	573346	4915	72 - 182	14667		S0053: 2	
HNHEA06	835893	4916	110 - 331	14668	Leu-1 to Thr-14, Phe-30 to Phe-40.	H0581: 1 and S0053: 1.	
HNHEA21	574868	4917	1 - 243	14669		S0052: 1 and S0053: 1.	
HNHEA40	573327	4918	3 - 179	14670		S0053: 2	
HNHEA96	796491	4919	1 - 237	14671		S0053: 1 and S0216: 1.	
HNHEB47	573339	4920	3 - 182	14672	Tyr-34 to Ser-40, Arg-46 to Arg-56.	S0053: 2	
HNHEB88	412655	4921	51 - 140	14673		S0053: 2	
HNHEC40	576507	4922	112 - 267	14674	Glu-24 to Gly-30, Ser-38 to Gly-47.	S0053: 2	
HNHEC51	577306	4923	68 - 418	14675	Ala-3 to Ser-8, Pro-24 to Gly-35, Gly-51 to Thr-60.	S0053: 2 and H0271: 1.	
HNHEC96	796463	4924	1 - 291	14676	Pro-7 to Met-12, Gln-22 to Ser-28.	S0053: 1 and S0216: 1.	
HNHED02	920414	4925	188 - 340	14677	Cys-2 to Asn-8.	S0053: 2	

HNHED51	682992	4926	339 - 686	14678	Thr-5 to Gly-13.	S0053: 1 and H0436: 1.	
HNHED82	576541	4927	289 - 53	14679	Pro-17 to Leu-25, Gln-33 to Ser-41, Ala-62 to Ser-71, Ser-74 to Lys-79.	S0053: 2	
HNHED83	576540	4928	124 - 330	14680	Pro-9 to His-15, Lys-27 to Lys-34, Lys-40 to Ile-55.	S0053: 2	
HNHEE25	576512	4929	183 - 383	14681		S0053: 2	
HNHEE30	576440	4930	267 - 410	14682	His-8 to Cys-40.	S0053: 2	
HNHEE38	860073	4931	2 - 241	14683		S0053: 2	
HNHEE40	576442	4932	289 - 426	14684	Asp-13 to Ala-19, Thr-40 to Gly-46.	S0053: 2	
HNHEE49	576820	4933	74 - 313	14685		S0053: 2	
HNHEF01	916792	4934	53 - 337	14686	Pro-1 to Pro-6, Gly-58 to Glu-63, Gln-68 to Lys-77.	S0053: 2	
HNHEF73	576419	4935	3 - 206	14687	Lys-30 to Met-35.	S0053: 2	
HNHEG28	586443	4936	28 - 336	14688	Thr-1 to Thr-11, Val-15 to Lys-26, Lys-80 to Gly-87.	AR050: 77, AR051: 70, AR054: 67 S0053: 2	
HNHEG32	576426	4937	159 - 404	14689	Glu-1 to Leu-7, Ser-27 to Lys-32, Glu-36 to Glu-42, Ala-44 to Arg-53.	S0053: 2	
HNHEG49	576415	4938	270 - 383	14690		S0053: 2	
HNHEG68	861181	4939	192 - 299	14691		S0212: 1 and S0053: 1.	
HNHEG91	506278	4940	158 - 289	14692	Ile-24 to Val-29.	S0053: 2	
HNHEH04	582732	4941	64 - 171	14693	Glu-27 to Gly-36.	S0053: 2	
HNHEH37	490514	4942	509 - 204	14694	Ile-29 to Ser-42, Glu-66 to Ala-92.	S0053: 2	
	860064	9591	122 - 331	19343	Ala-12 to Cys-17, Glu-20 to Leu-30.		
HNHEH41	578589	4943	1 - 228	14695	Gln-1 to Arg-15.	H0073: 1 and S0053: 1.	
HNHEH51	678114	4944	234 - 389	14696		S0053: 2	
HNHEH52	860021	4945	67 - 372	14697	Thr-11 to Thr-18,	S0053: 2	

HNHEH60	576517	4946	27 - 170	14698	Thr-31 to Glu-40. Arg-1 to Arg-6, His-24 to Glu-32.	S0053: 2	
HNHEI06	923080	4947	220 - 375	14699		S0053: 1 and S0216: 1.	
HNHEI64	576549	4948	191 - 313	14700		S0053: 2	
HNHEI07	953586	4949	59 - 325	14701		S0053: 1, S0216: 1 and L0594: 1.	
HNHEI11	967265	4950	1 - 237	14702	Glu-1 to Asp-13.	S0053: 1 and S0216: 1.	
HNHEI23	576533	4951	19 - 288	14703	Tyr-1 to Phe-8, Gly-21 to His-34, Gly-42 to Gly-52, Gly-57 to Asn-64, Leu-81 to Pro-86.	S0053: 3	
HNHEI24	916556	4952	78 - 230	14704		S0053: 2	
HNHEI44	716723	4953	106 - 207	14705	Ser-1 to Cys-6.	S0053: 2	
HNHEI57	576535	4954	148 - 246	14706		S0053: 2	
HNHEI85	964882	4955	1 - 162	14707	Ala-24 to Glu-31, Asn-39 to Gly-46.	H0063: 1 and S0053: 1.	
HNHEK01	916790	4956	223 - 465	14708	Cys-17 to Ser-25.	H0589: 1 and S0053: 1.	
HNHEK63	576819	4957	1 - 465	14709	Gly-1 to Leu-6, Gly-40 to Arg-46, Cys-73 to Ser-80.	S0053: 2	
HNHEK79	954548	4958	43 - 165	14710		S0114: 1 and S0053: 1.	
HNHEK83	576420	4959	3 - 212	14711	Glu-4 to Thr-11, Ile-35 to Asn-46.	S0053: 2	
HNHEL09	576418	4960	3 - 116	14712	Lys-26 to Asn-34.	S0053: 2	
HNHEL37	713723	4961	345 - 223	14713		S0053: 1 and H0521: 1.	
HNHEL42	859830	4962	209 - 412	14714		S0053: 1 and S0216: 1.	
HNHEL44	576423	4963	3 - 212	14715		S0053: 2	
HNHEL53	506281	4964	124 - 273	14716		S0053: 2	
HNHEL82	576430	4965	246 - 386	14717		S0053: 2 and H0589: 1.	
HNHEL94	786930	4966	1 - 249	14718	Lys-17 to Gln-22.	H0421: 2 and S0053: 1.	
HNHEM04	950725	4967	2 - 154	14719		S0053: 2	
HNHEM34	860047	4968	3 - 170	14720	Arg-38 to Lys-43.	S0428: 1 and S0053: 1.	
HNHEM35	576424	4969	156 - 341	14721		S0053: 2	

HNHEM83	825354	4970	30 - 425	14722			S0052: 2, S0216: 2 and S0053: 1.		
HNHEM85	783480	4971	178 - 345	14723	Leu-2 to Ser-20, Lys-50 to Phe-56.		H0264: 1 and S0053: 1.		
HNHEN02	920420	4972	210 - 311	14724			S0053: 2		
HNHEN16	615402	4973	2 - 292	14725			S0053: 2		
HNHEN56	733521	4974	182 - 346	14726			H0264: 1, S0053: 1 and L0600: 1.		
HNHEN66	576544	4975	40 - 255	14727	Pro-25 to Pro-32.		S0053: 2		
HNHEN76	576542	4976	1 - 237	14728	Ala-28 to Gln-44.		S0053: 2 and S0428: 1.		
HNHEO29	576548	4977	120 - 440	14729	His-10 to Thr-16.		S0053: 2		
HNHEO43	860046	4978	175 - 348	14730			H0556: 1 and S0053: 1.		
HNHEO83	706683	4979	17 - 172	14731	His-15 to Gly-20, Ser-36 to Glu-47.		S0053: 2		
HNHEO84	859992	4980	102 - 272	14732	Thr-3 to Lys-9, Cys-50 to Arg-56.		S0053: 2		
HNHEP49	576453	4981	3 - 281	14733	Pro-1 to Cys-14, Glu-40 to Ser-48.		S0053: 2		
HNHEQ07	953577	4982	141 - 314	14734	Thr-8 to Asp-19.		S0053: 2 and S0428: 1.		
HNHEQ46	576437	4983	168 - 311	14735			S0053: 2		
HNHEQ60	576455	4984	2 - 133	14736	Ala-1 to Arg-6.		S0053: 2		
HNHEQ70	577188	4985	73 - 426	14737	Arg-1 to Cys-9, Leu-64 to Gly-75.		S0053: 2		
HNHEQ92	576456	4986	56 - 226	14738	His-24 to Ile-29, Tyr-31 to Asn-41.		S0053: 2		
HNHEQ94	577303	4987	121 - 249	14739	Glu-26 to Gln-37.		S0053: 2		
HNHER06	918651	4988	1 - 285	14740	Gln-11 to His-19, Ala-25 to Glu-38.		S0053: 1 and S0216: 1.		
HNHER21	496484	4989	92 - 529	14741	Pro-8 to Arg-13, Ser-33 to Val-38, Ile-50 to Ala-57.		S0053: 2		
HNHES05	932092	4990	1 - 123	14742			S0053: 2		
HNHES06	859833	4991	2 - 292	14743			S0053: 1 and S0216: 1.		
HNHES07	953443	4992	55 - 183	14744	Asn-3 to Gln-9.		S0053: 2		
HNHES11	967128	4993	92 - 268	14745	Glu-1 to Pro-12,		S0053: 2		

HNHES23	675946	4994	258 - 46	14746	Pro-28 to Gly-37. Lys-53 to Asn-64.	L0766: 4, L0789: 1, S0052: 1 and S0053: 1.
HNHES35	576497	4995	80 - 325	14747	Pro-1 to Ala-7.	S0053: 2
HNHES56	881504	4996	91 - 393	14748	Ile-86 to Ser-93.	H0305: 1 and S0053: 1.
HNHES61	973297	4997	186 - 407	14749	Asp-14 to Gln-23, Arg-31 to Glu-38, Ile-42 to Gln-47.	S0053: 2
HNHES81	777979	4998	157 - 384	14750	Leu-15 to Gly-28, Val-44 to Cys-50.	S0053: 2
HNHET11	967127	4999	216 - 371	14751	Asp-14 to Phe-19, Glu-34 to Asn-43.	S0053: 2
HNHET17	576746	5000	110 - 322	14752	Gly-31 to Gly-37, Pro-39 to Ala-46, Cys-50 to Glu-60.	S0052: 1 and S0053: 1.
HNHET24	860006	5001	90 - 338	14753	Pro-49 to Asp-54, Ser-65 to Trp-73.	S0053: 2
HNHET25	953410	5002	63 - 362	14754	Ser-29 to Tyr-40, Ala-62 to Ala-85.	S0053: 2
HNHET57	577360	5003	240 - 458	14755	Arg-25 to Asn-36.	S0052: 1 and S0053: 1.
HNHEU50	724449	5004	78 - 254	14756	Gln-19 to Gly-26.	S0053: 2
HNHEU60	576387	5005	2 - 253	14757	Cys-26 to Gln-35.	S0053: 2
HNHEU71	574396	5006	111 - 290	14758		S0053: 2
HNHEV25	577111	5007	3 - 131	14759		S0053: 2
HNHEV44	716661	5008	3 - 206	14760		L0748: 2, H0402: 1, L0664: 1 and S0053: 1.
HNHEV46	577337	5009	3 - 182	14761	Glu-22 to Gly-31.	S0053: 2
HNHEV49	575777	5010	108 - 308	14762	Glu-30 to His-35.	S0053: 2
HNHEW03	924475	5011	116 - 298	14763	Asp-1 to Ser-16, Trp-43 to Ile-51.	S0052: 1, S0053: 1 and H0444: 1.
HNHEW14	658506	5012	31 - 336	14764	Gln-13 to Gly-26.	L0361: 2, S0428: 1 and S0053: 1.
HNHEW19	953446	5013	170 - 3	14765		S0053: 2
HNHEW21	670987	5014	69 - 197	14766		S0053: 3
HNHEW75	576361	5015	146 - 244	14767		S0053: 2



HNHEW76	770081	5016	56 - 196	14768			S0053: 2		
HNHEW95	953566	5017	3 - 257	14769	His-1 to Arg-9, Arg-47 to Cys-62.		S0053: 2		
HNHEX12	970764	5018	168 - 374	14770			S0053: 2		
HNHEX40	711225	5019	289 - 426	14771	Cys-3 to Cys-12, Gly-16 to Glu-26, Leu-30 to Ile-36.		H0271: 1 and S0053: 1.		
HNHEX54	575783	5020	1 - 267	14772	Gly-1 to Gly-6, Ala-15 to Gly-20, Pro-31 to Arg-52, Leu-79 to Gly-88.		S0053: 2		
HNHEX66	860036	5021	101 - 424	14773			S0053: 4		
HNHEX77	860037	5022	205 - 432	14774	Pro-8 to Val-15, Pro-53 to Gln-58.		S0053: 3		
HNHEY59	959668	5023	3 - 191	14775	Thr-19 to Cys-32.		S0053: 2		
HNHEY63	575741	5024	263 - 397	14776			S0053: 2		
HNHEY93	575745	5025	1 - 99	14777			S0053: 2		
HNHEZ07	953438	5026	49 - 153	14778	Leu-24 to Cys-29.		H0318: 1 and S0053: 1.		
HNHEZ18	575788	5027	3 - 104	14779	Gln-3 to Lys-10, Asp-18 to Leu-24.		S0053: 2		
HNHEZ19	887442	5028	3 - 266	14780	Pro-16 to Gln-21.		AR054: 7, AR051: 1, AR050: 0 S0053: 2		
HNHFA05	860033	5029	1 - 267	14781	Ser-7 to Gly-22, Trp-41 to Thr-48, Pro-56 to Ser-65, Gln-73 to Leu-82.		S0053: 1 and S0216: 1.		
HNHFA11	967126	5030	179 - 361	14782			H0305: 1 and S0053: 1.		
HNHFA35	577302	5031	19 - 219	14783	Thr-1 to Ala-12.		S0053: 3		
HNHFA59	576394	5032	258 - 413	14784			S0053: 2		
HNHFB09	575786	5033	200 - 430	14785			S0053: 2		
HNHFB19	668713	5034	118 - 270	14786			S0053: 1 and H0444: 1.		
HNHFB27	576865	5035	86 - 427	14787	Leu-5 to Pro-11.		H0341: 1 and S0053: 1.		
HNHFB32	836006	5036	274 - 444	14788			S0053: 2		
HNHFB39	575740	5037	178 - 348	14789	Pro-3 to Cys-26.		S0053: 2		
hnhfb53	728265	5038	233 - 406	14790			S0053: 2		

HNHFC34	860027	5039	3 - 182	14791	His-1 to Arg-10, Asn-20 to Trp-37, Arg-39 to Pro-47, Glu-53 to Asn-60.	S0053: 2		
HNHFC43	583660	5040	277 - 104	14792	Ile-3 to Val-11, Pro-39 to Lys-45.	S0052: 1 and S0053: 1.		
	590226	9592	349 - 215	19344				
	973274	9593	484 - 771	19345				
HNHFC60	576438	5041	95 - 343	14793		S0053: 2		
HNHFC61	577185	5042	72 - 242	14794	Glu-10 to Val-32.	S0053: 2		
HNHFC67	576385	5043	46 - 312	14795	Lys-3 to Pro-9.	S0053: 2		
HNHFC78	576435	5044	97 - 303	14796	Ala-30 to Gly-43, Ser-53 to Ala-66.	S0053: 2		
HNHFC92	577240	5045	33 - 236	14797		S0053: 2		
HNHFD46	576796	5046	122 - 382	14798	Phe-4 to Gly-9, Thr-29 to Gln-52.	S0053: 2		
HNHFD88	506354	5047	2 - 358	14799		S0052: 1 and S0053: 1.		
HNHFE07	953585	5048	65 - 3	14800		S0053: 2		
HNHFE40	576431	5049	148 - 336	14801		S0053: 2		
HNHFE69	577244	5050	1 - 225	14802		S0053: 2		
HNHFF08	860229	5051	434 - 607	14803	Lys-24 to Lys-31.	S0428: 4, S0116: 1, H0179: 1 and S0053: 1.		
HNHFF21	625613	5052	239 - 340	14804		S0053: 2		
HNHFF29	576412	5053	50 - 280	14805	Arg-11 to Gly-19.	S0053: 2		
HNHFF56	576432	5054	157 - 390	14806	Pro-27 to Pro-32.	S0053: 2		
HNHFG07	953569	5055	265 - 399	14807	Leu-1 to Tyr-11.	S0053: 2		
HNHFG11	967255	5056	59 - 283	14808		S0053: 1 and H0444: 1.		
HNHFG37	658459	5057	1 - 405	14809	Lys-22 to Gly-37, Thr-46 to Asp-51, Arg-72 to Asp-77.	S0053: 2		
HNHFG94	720292	5058	129 - 341	14810	Gly-1 to Trp-10, Pro-13 to Pro-25.	S0053: 1 and H0521: 1.		
HNHFH21	575785	5059	252 - 590	14811	Ala-26 to Phe-31, Ala-35 to Gly-42.	S0053: 2 and L0740: 1.		
HNHFH56	575784	5060	1 - 177	14812		S0053: 2		

HNHFH78	773610	5061	142 - 399	14813	Gly-8 to Trp-14.	S0053: 2	
HNHFL69	575747	5062	3 - 89	14814	Lys-22 to Glu-29.	S0053: 2	
HNHFH88	575751	5063	3 - 182	14815	Ala-40 to Ser-47.	S0053: 2	
HNHFH95	577328	5064	260 - 406	14816		S0053: 2	
HNHFH45	720757	5065	172 - 435	14817	Glu-25 to Arg-31, Arg-35 to Gly-41, Asn-56 to Leu-61.	S0053: 2 and S0216: 1.	
HNHFH67	699523	5066	265 - 143	14818	Asn-1 to Arg-10, Asp-13 to Met-20.	S0053: 2, L0748: 1 and L0758: 1.	
HNHFK37	576386	5067	34 - 336	14819	Asn-31 to Ser-37, Ser-78 to Gly-97.	S0053: 3	
HNHFK77	970770	5068	43 - 453	14820	Glu-1 to Glu-9, Val-14 to Gly-19, Lys-25 to Thr-32.	S0053: 3	
HNHFL48	664588	5069	3 - 122	14821	Val-6 to Ala-15.	S0053: 2	
HNHFL82	576428	5070	45 - 398	14822	Leu-1 to Ser-9.	S0053: 2	
HNHFM01	916787	5071	178 - 303	14823		S0053: 2	
HNHFM32	577331	5072	14 - 358	14824		S0053: 2	
HNHFN30	691083	5073	80 - 220	14825		S0053: 2	
HNHFN52	727258	5074	1 - 165	14826	Gly-1 to Gln-12.	S0053: 2	
HNHFN95	761672	5075	46 - 180	14827		S0053: 2	
HNHFO45	576408	5076	180 - 338	14828	Val-1 to Gln-6.	S0053: 2	
HNHFO48	707311	5077	17 - 292	14829	Gln-23 to His-32, Pro-48 to Leu-55.	H0416: 1, S0053: 1 and L0439: 1.	
HNHFP09	860013	5078	85 - 279	14830		S0053: 1 and S0216: 1.	
HNHFP10	964849	5079	284 - 430	14831	Leu-20 to Gly-27.	S0053: 2	
HNHFP01	916773	5080	2 - 301	14832	Ala-1 to Ala-6, Ala-29 to Leu-40, Ser-65 to Tyr-77.	H0179: 1 and S0053: 1.	
HNHFPQ19	418108	5081	1 - 162	14833	Trp-1 to Trp-6.	S0053: 2	
HNHFPQ30	692807	5082	1 - 285	14834	Thr-7 to Cys-13.	S0053: 2	
HNHFPQ75	766595	5083	27 - 356	14835		S0053: 2	
HNHFPQ88	576398	5084	1 - 204	14836	Thr-17 to Gly-25.	S0053: 2	
HNHFPQ92	576400	5085	111 - 1	14837		S0053: 2	
HNHFR12	860003	5086	127 - 315	14838	Arg-1 to Gln-14,	S0053: 2	

HNHFR22	964716	5087	19 - 444	14839	Gly-23 to Met-29.		
HNHFR24	577330	5088	136 - 336	14840	Arg-92 to Gly-98.	S0052: 1 and S0053: 1.	
HNHFR67	751787	5089	1 - 228	14841	Lys-7 to Thr-13.	S0053: 2	
HNHFS03	924610	5090	108 - 473	14842	Thr-1 to Lys-11.	S0053: 2	
HNHFS79	734798	5091	2 - 151	14843	Thr-1 to Asp-10, Arg-49 to Gln-55.	H0271: 1 and S0053: 1.	
HNHFU09	625726	5092	191 - 406	14844	Glu-4 to Glu-9, Glu-11 to Ser-19, Pro-24 to Cys-33.	S0053: 2	
HNHFU35	707335	5093	184 - 312	14845		S0053: 2	
HNHFU45	920844	5094	91 - 444	14846		H0073: 1 and S0053: 1.	
HNHFU57	860002	5095	1 - 171	14847	Lys-9 to Gly-16.	S0053: 2	
HNHFV16	952376	5096	77 - 373	14848	Leu-14 to Asn-29, Pro-45 to Arg-52, Ala-58 to Gly-65.	S0053: 1 and S0216: 1.	
HNHFV52	576390	5097	34 - 399	14849		S0053: 2	
HNHFV56	724417	5098	281 - 475	14850		S0052: 1 and S0053: 1.	
HNHFV66	860000	5099	3 - 173	14851	Asn-1 to Glu-24.	S0053: 2	
HNHFV68	925820	5100	86 - 346	14852		H0255: 2 and S0053: 1.	
HNHFV70	757281	5101	150 - 329	14853		S0053: 1 and S0216: 1.	
HNHFW08	959476	5102	1 - 297	14854	Glu-30 to Pro-50.	S0053: 2	
HNHFW29	663912	5103	3 - 338	14855	Pro-11 to Ala-16, Ser-24 to Thr-34.	S0053: 2	
HNHFX22	674638	5104	3 - 131	14856	Arg-17 to Val-26, Asn-28 to Gly-35, Arg-37 to Leu-42.	S0053: 2 and H0436: 2.	
HNHFX35	668656	5105	3 - 356	14857	His-1 to Gly-9, Pro-23 to Gly-28, Gln-66 to His-75.	S0053: 2	
HNHFX56	716628	5106	1 - 237	14858		S0053: 2	
HNHFX68	753045	5107	109 - 38	14859		S0053: 2	
HNHFX70	756459	5108	62 - 370	14860	Ser-53 to Asn-77.	S0052: 1 and S0053: 1.	
HNHFX89	712347	5109	258 - 425	14861	Gln-8 to Ser-16.	S0053: 2	
HNHFX21	670946	5110	2 - 169	14862	Lys-18 to Tyr-35.	S0053: 2	

HNHFY95	734764	5111	24 - 164	14863			S0053: 2		
HNHGA24	967093	5112	200 - 373	14864		Pro-4 to Lys-19.	S0053: 2 and H0271: 1.		
HNHGA33	702461	5113	50 - 166	14865		Lys-1 to Ile-6.	S0053: 2		
HNHGA46	719073	5114	1 - 156	14866		Thr-45 to Lys-52.	S0053: 3		
HNHGB83	781205	5115	37 - 174	14867			S0053: 2		
HNHGB96	784362	5116	123 - 233	14868			S0053: 2		
HNHGC13	927065	5117	121 - 222	14869			S0053: 1 and S0216: 1.		
HNHGC35	707337	5118	58 - 267	14870		Phe-17 to Arg-22, Tyr-31 to Ser-36, Gly-55 to Arg-70.	H0421: 1 and S0053: 1.		
HNHGC41	711654	5119	3 - 224	14871		His-1 to Lys-6, Gly-24 to Ser-40, Ser-53 to Arg-58, Leu-68 to Ser-74.	S0053: 2		
HNHGC62	733745	5120	478 - 654	14872			L0748: 4, S0053: 1 and H0187: 1.		
HNHGD07	953416	5121	1 - 420	14873		Gly-1 to Gly-6, Ser-11 to Pro-19.	S0053: 2		
HNHGD14	920149	5122	177 - 323	14874		Tyr-12 to Phe-24.	S0053: 2		
HNHGD50	667930	5123	2 - 172	14875		Pro-5 to Pro-17, Pro-46 to Lys-51.	S0053: 2		
HNHGD51	934632	5124	105 - 281	14876		Leu-3 to Arg-8.	S0216: 2 and S0053: 1.		
HNHGD68	753053	5125	74 - 307	14877			S0053: 2		
HNHGD84	671077	5126	165 - 332	14878			S0053: 2		
HNHGE09	939727	5127	22 - 645	14879		His-8 to Gly-18, Glu-35 to Thr-41, Arg-53 to Asp-59, Glu-82 to Pro-94.	AR089: 1, AR061: 1 S0053: 2		
HNHGE27	683432	5128	322 - 197	14880		Met-1 to Arg-6, Asn-36 to Ala-42.	S0052: 1 and S0053: 1.		
HNHGE43	715304	5129	65 - 325	14881		Arg-46 to Lys-51.	S0053: 1 and S0216: 1.		
HNHGE64	746605	5130	3 - 104	14882		Thr-15 to Glu-21, Ser-23 to Ser-32.	S0053: 2		
HNHGF14	835984	5131	13 - 387	14883		Arg-6 to Pro-19.	S0053: 2		
HNHGF21	670956	5132	54 - 251	14884		Arg-8 to Trp-14, Arg-18 to Ala-23.	S0053: 2		

HNHGF37	708708	5133	164 - 331	14885	Leu-58 to Leu-63.	S0053: 2	
HNHGF45	859852	5134	70 - 384	14886	Ala-23 to Gly-28.	S0053: 1 and S0216: 1.	
HNHGF46	705128	5135	21 - 425	14887	Ser-28 to Glu-33.	S0052: 1 and S0053: 1.	
					Leu-12 to Ser-33, Ala-42 to Leu-48, Ser-57 to Pro-65.		
HNHGF85	761811	5136	2 - 208	14888	Ala-7 to Ala-17, Ser-32 to Gly-42, Glu-61 to Lys-69.	S0053: 1 and S0216: 1.	
HNHGF90	730957	5137	2 - 280	14889	Leu-62 to Pro-69.	S0053: 2	
HNHGF91	750389	5138	276 - 431	14890	Ala-40 to Thr-46.	S0052: 1 and S0053: 1.	
HNHGG06	935530	5139	146 - 310	14891		S0053: 2 and L0748: 2.	
HNHGG73	764446	5140	76 - 231	14892		S0053: 2	
HNHGG76	746607	5141	1 - 198	14893	Asp-53 to Trp-63.	S0053: 3	
HNHGG89	772213	5142	73 - 303	14894	Lys-12 to Arg-23.	S0053: 2	
HNHGG93	792335	5143	22 - 195	14895	Gly-30 to Phe-38.	S0053: 1 and S0216: 1.	
HNHGG95	760386	5144	1 - 411	14896	Arg-53 to Gln-62, Pro-79 to Ser-84.	S0053: 2	
HNHGH02	920147	5145	3 - 257	14897	His-1 to Arg-9, Pro-44 to Gln-49.	S0052: 1 and S0053: 1.	
HNHGH20	959499	5146	2 - 241	14898	Val-22 to His-42, Arg-57 to His-62, His-75 to Arg-80.	S0053: 2	
HNHGH42	713036	5147	2 - 175	14899	Gly-26 to Gly-37.	S0053: 3	
HNHGH35	707336	5148	124 - 303	14900	Pro-18 to Arg-27.	S0053: 2	
HNHGI79	775218	5149	3 - 143	14901	Asp-13 to Trp-23.	S0053: 2	
HNHGI81	576279	5150	157 - 345	14902		S0052: 2 and S0053: 1.	
HNHGI03	968076	5151	1 - 225	14903	Phe-69 to Ile-75.	S0053: 1 and S0216: 1.	
HNHGI09	625624	5152	193 - 312	14904	Ser-1 to Trp-9, Pro-15 to Glu-26.	S0053: 2	
HNHGI20	668916	5153	173 - 397	14905	Cys-4 to Leu-10, Pro-12 to Gly-21, Ile-31 to Asn-38.	S0053: 2	
HNHGI28	686733	5154	96 - 323	14906	Glu-34 to Thr-42.	S0053: 3	
HNHGI39	850088	5155	3 - 167	14907	Ala-1 to Leu-8.	H0402: 1 and S0053: 1.	

HNHGGJ65	750269	5156	146 - 418	14908	Gly-26 to Ala-42, Thr-51 to Gly-58.	S0053: 2		
HNHGGJ81	777958	5157	172 - 402	14909	Gln-12 to Ser-17.	S0053: 2		
HNHGGK05	935525	5158	111 - 260	14910		S0053: 2		
HNHGGK24	783674	5159	117 - 335	14911	His-2 to Gln-8, Pro-67 to Ala-73.	S0053: 1 and S0216: 1.		
HNHGGK70	728593	5160	2 - 421	14912		S0053: 2	19q13.3-q13.4	113900, 126340, 126391, 130410, 134790, 138570, 160900, 173850, 191044, 258501, 600040, 600138, 602225, 602225
HNHGN17	663923	5161	139 - 273	14913		S0052: 1 and S0053: 1.		
HNHGO21	670955	5162	2 - 289	14914	Pro-45 to Glu-59, Gly-66 to Leu-73.	S0053: 2		
HNHGO65	750267	5163	3 - 92	14915		S0053: 2		
HNHGO68	732370	5164	106 - 324	14916	Arg-1 to Gly-9, Arg-17 to His-29, Met-40 to Arg-47, His-51 to Pro-61.	S0053: 2		
HNHGP08	859964	5165	2 - 97	14917	Arg-2 to Leu-11.	S0053: 2		
HNHGP31	698047	5166	3 - 284	14918	Ser-9 to Leu-15, His-57 to Cys-64, Glu-84 to Arg-94.	S0053: 2		
HNHGP32	699292	5167	161 - 268	14919	Gln-1 to Glu-6, Arg-20 to Met-25.	S0053: 2		
HNHGP40	916551	5168	233 - 391	14920	Ile-17 to Pro-26.	S0053: 2		
HNHGP73	934446	5169	8 - 163	14921		S0053: 1 and S0216: 1.		
HNHGP83	780328	5170	65 - 346	14922	Pro-31 to Gly-43, Leu-48 to Asn-57, Lys-87 to Ser-94.	S0053: 1 and S0216: 1.		
HNHGGQ02	920146	5171	129 - 404	14923	Gln-35 to Gly-46, Ser-54 to Phe-59, Val-64 to Gly-74.	S0053: 3		
HNHGGQ25	678151	5172	250 - 447	14924		S0053: 2		

HNHGQ28	859965	5173	52 - 447	14925	Thr-58 to Cys-63, Ala-99 to Ser-104.	S0053: 2		
HNHGQ49	573340	5174	280 - 471	14926	Met-37 to Gln-44.	S0053: 2		
HNHGQ79	562748	5175	342 - 500	14927	Leu-22 to His-33, Ala-46 to Leu-53.	S0053: 2		
	581933	9594	348 - 506	19346	Leu-22 to His-33, Ala-46 to Leu-53.			
HNHGR35	698501	5176	147 - 329	14928	Phe-4 to Ile-17.	S0053: 2		
HNHGR43	918711	5177	108 - 314	14929		S0053: 1 and S0216: 1.		
HNHGS34	706671	5178	97 - 435	14930	Gly-63 to Gln-69, Asp-84 to Ser-89, Val-103 to Asn-112.	S0053: 2		
HNHGT37	708706	5179	3 - 275	14931		S0053: 2		
HNHGT51	859962	5180	146 - 367	14932	Leu-6 to Gln-15.	S0053: 2		
HNHGT64	725710	5181	122 - 328	14933	Asn-1 to Leu-6.	S0053: 2		
HNHGT74	765602	5182	71 - 445	14934		S0053: 2		
HNHGU19	668693	5183	179 - 421	14935		S0053: 2		
HNHGU41	791822	5184	362 - 499	14936		S0053: 1 and S0216: 1.		
HNHGU44	716634	5185	61 - 264	14937		S0053: 2		
HNHGU84	783041	5186	18 - 56	14938		S0053: 2		
HNHGU89	761837	5187	161 - 355	14939	Ser-4 to Pro-11.	S0053: 2 and S0216: 1.		
HNHGV18	666473	5188	198 - 329	14940		S0053: 2		
HNHGV22	674653	5189	1 - 195	14941	Gly-1 to His-36.	S0053: 2		
HNHGV29	421819	5190	2 - 322	14942	Pro-35 to Leu-48.	S0053: 2		
HNHGV45	754053	5191	3 - 287	14943	His-1 to Lys-8.	S0053: 2		
HNHGV91	706695	5192	266 - 379	14944		S0053: 2		
HNHGX33	496224	5193	23 - 262	14945	Thr-1 to Ser-6, Pro-28 to Trp-37, Phe-51 to Ile-61.	S0053: 2		
HNHGX40	687120	5194	113 - 358	14946		S0053: 2		
HNHGX41	711657	5195	384 - 614	14947		S0052: 1 and S0053: 1.		
HNHGX52	727175	5196	47 - 385	14948	Pro-16 to Arg-25, Gln-31 to Pro-36, Ser-65 to Arg-75, Glu-77 to Val-82.	S0053: 2		



HNHGX55	683523	5197	71 - 310	14949	Phe-30 to Asp-36.	S0053: 2	
HNHGX83	781196	5198	3 - 251	14950		S0053: 1 and S0216: 1.	
HNHGY13	657253	5199	143 - 334	14951		S0053: 2	
HNHGY17	663921	5200	108 - 281	14952	Asp-1 to Pro-8, Leu-29 to Asp-35.	S0053: 2	
HNHGY18	859951	5201	175 - 423	14953	Pro-22 to His-39, Val-41 to Gly-48.	S0053: 2	
HNHGY19	835531	5202	2 - 349	14954	Asp-21 to Ser-27, Ser-76 to Ser-85.	S0053: 2	
HNHGY26	859949	5203	20 - 205	14955	Arg-6 to Cys-12, Leu-56 to Met-62.	S0053: 2 and S0216: 1.	
HNHGY29	690666	5204	87 - 368	14956	Arg-19 to Pro-33, Pro-39 to Ser-54.	H0271: 1 and S0053: 1.	
HNHGY42	713797	5205	1 - 243	14957	Leu-46 to Gln-55.	S0053: 2	
HNHGY47	720360	5206	45 - 374	14958	Asp-10 to Trp-15.	S0053: 2 and L0476: 1.	
HNHGY79	775209	5207	2 - 199	14959	Ala-1 to Lys-7, Leu-18 to Gln-35.	S0053: 2	
HNHGY86	785516	5208	129 - 1	14960		S0053: 2	
HNHGY91	840129	5209	209 - 433	14961	Gly-2 to Asn-11.	S0428: 1 and S0053: 1.	
HNHGG36	708131	5210	2 - 85	14962	Ala-14 to Val-28.	S0053: 2	
HNHGGZ63	742594	5211	209 - 421	14963		S0052: 1 and S0053: 1.	
HNHHA21	496227	5212	3 - 278	14964	Gly-59 to Asp-78.	S0053: 2	
HNHHA32	669915	5213	2 - 280	14965		H0271: 1 and S0053: 1.	
HNHHA37	708709	5214	2 - 166	14966	Pro-45 to Gln-54.	S0053: 2	
HNHHA68	753047	5215	258 - 497	14967		S0053: 1 and S0216: 1.	
HNHHA91	790198	5216	45 - 284	14968	Lys-14 to Cys-19.	S0053: 1 and S0216: 1.	
HNHHA11	964993	5217	61 - 159	14969	Asp-10 to Gly-18.	S0053: 2	
HNHHA12	970719	5218	107 - 247	14970	Thr-6 to Ser-20.	S0053: 2	
HNHHA24	677224	5219	141 - 332	14971		S0053: 2	
HNHHA64	702697	5220	354 - 614	14972	Lys-16 to Ser-31.	S0052: 1, S0053: 1, H0521: 1 and L0752: 1.	
HNHHC12	967088	5221	95 - 304	14973	Met-6 to Gln-13, Arg-15 to Trp-20.	S0053: 2	
HNHHC17	860117	5222	83 - 316	14974		S0053: 3	
HNHHC29	713800	5223	1 - 180	14975		S0053: 3 and L0589: 2.	

HNHHC33	699291	5224	100 - 186	14976		S0053: 2	
HNHHC36	707340	5225	159 - 37	14977	Cys-1 to Ile-11.	S0053: 3	
HNHHC46	719068	5226	1 - 252	14978	Gln-14 to Met-19.	S0053: 2	
HNHHC58	736069	5227	3 - 239	14979		S0053: 2	
HNHHC83	781197	5228	35 - 439	14980	Asp-1 to Ala-6, Pro-23 to Leu-30.	S0053: 2	
HNHHD35	707338	5229	41 - 190	14981	Ser-38 to Ser-48.	S0053: 2	
HNHHD61	741837	5230	153 - 419	14982	Lys-21 to Pro-41.	S0053: 3	
HNHHD67	751663	5231	152 - 319	14983	Thr-30 to Pro-40.	S0053: 3	
HNHHD82	779893	5232	223 - 405	14984	Met-6 to Arg-12.	S0053: 3	
HNHHE07	953408	5233	33 - 290	14985	Leu-11 to Glu-17.	S0053: 2	
HNHHE48	630223	5234	100 - 312	14986		S0053: 2	
HNHHE63	745100	5235	1 - 198	14987	Gly-1 to Arg-9, Ser-28 to Trp-33.	S0053: 2	
HNHHE80	774041	5236	35 - 205	14988		S0053: 2	
HNHHEF01	916546	5237	3 - 320	14989	Asp-1 to Asn-10, Gly-18 to Trp-23, Gly-25 to Ser-33.	S0053: 2	
HNHHEF33	698502	5238	1 - 261	14990	Gly-1 to Ala-12, Pro-14 to Gly-21.	S0053: 2	
HNHHEF51	698490	5239	43 - 240	14991	Ala-1 to Pro-25.	S0053: 3	
HNHHEF56	496204	5240	2 - 217	14992	Tyr-7 to Phe-24.	S0053: 2	
HNHHEF58	859946	5241	80 - 247	14993		S0053: 3	
HNHHEF63	745095	5242	68 - 373	14994	Pro-35 to Gly-43.	S0053: 1 and S0216: 1.	
HNHHEF79	775205	5243	59 - 184	14995		S0053: 3	
HNHHEF96	796402	5244	144 - 1	14996		S0053: 3	
HNHHG47	720361	5245	41 - 292	14997	Pro-25 to Pro-31.	S0053: 3	
HNHHG50	724411	5246	2 - 247	14998		S0053: 2	
HNHHG65	750266	5247	61 - 249	14999		S0053: 2	
HNHHH13	657251	5248	56 - 223	15000	Ala-1 to Cys-9, Pro-51 to Ser-56.	S0053: 4	
HNHHH42	713796	5249	28 - 225	15001		S0053: 2	
HNHHH57	734793	5250	134 - 313	15002		S0053: 2	
HNHHI10	964659	5251	3 - 188	15003		S0052: 1 and S0053: 1.	
HNHHI28	859941	5252	1 - 351	15004	Gly-1 to Gly-18,	S0053: 2	

					Asn-49 to Asn-72, Gly-86 to Gln-98.				
HNHHI34	706699	5253	37 - 171	15005	Arg-17 to Thr-24.			S0053: 2	
HNHHI36	708132	5254	213 - 440	15006	Glu-13 to Ser-20, Gln-42 to Thr-52.			S0140: 1 and S0053: 1.	
HNHHI65	750263	5255	171 - 386	15007	Ile-3 to Lys-9, Leu-26 to Cys-31, Cys-39 to Gly-47.			S0053: 2	
HNHHI72	510619	5256	72 - 689	15008	Thr-7 to Arg-18, Arg-42 to Leu-48, Arg-51 to Arg-59, Pro-61 to Ala-73.			S0052: 1 and S0053: 1.	
HNHHK06	935517	5257	192 - 431	15009	Glu-16 to Tyr-25, Gln-69 to Thr-76.			H0635: 1, H0063: 1 and S0053: 1.	
HNHHK39	937598	5258	142 - 300	15010	Arg-15 to Leu-23, Lys-30 to Gln-53.			S0053: 4	
HNHHK46	718081	5259	1 - 150	15011	Gly-1 to Thr-30.			S0053: 2 and S0216: 1.	
HNHHK62	741835	5260	1 - 228	15012	Pro-23 to Leu-30.			S0053: 2	
HNHHK74	765601	5261	193 - 336	15013				S0053: 2	
HNHHK84	781980	5262	226 - 363	15014				S0053: 2	
HNHHK93	792326	5263	370 - 561	15015	Leu-1 to Gln-14.			S0053: 2 and S0216: 1.	
HNHHL22	674617	5264	164 - 310	15016	Arg-12 to Leu-19.			S0053: 2	
HNHHL70	757201	5265	107 - 322	15017	Arg-9 to Phe-15.			S0053: 3	
HNHHL74	765598	5266	53 - 181	15018				S0053: 2	
HNHHL92	756587	5267	3 - 134	15019	His-1 to Tyr-7, Thr-11 to Ser-17, Leu-33 to Cys-39.			S0053: 1 and S0216: 1.	
HNHHM10	964656	5268	76 - 207	15020				S0053: 2	
HNHHM17	661964	5269	2 - 130	15021	Pro-12 to Cys-20, Ser-23 to Asn-31.			S0053: 2	
HNHHM25	678144	5270	76 - 285	15022				S0053: 2	
HNHHM28	575451	5271	271 - 149	15023				L0666: 2, L0717: 1, H0057: 1, L0659: 1, S0053: 1 and L0748: 1.	
HNHHM35	706667	5272	158 - 334	15024	Asn-9 to Cys-16, Pro-19 to Ser-31,			S0053: 2	

HNHHM37	708715	5273	20 - 160	15025	Asn-45 to Val-53. Leu-17 to Leu-25, Asn-42 to Gly-47.	S0053: 3	
HNHHM52	727166	5274	87 - 203	15026		S0053: 2	
HNHHM55	694373	5275	69 - 377	15027	Val-17 to Ala-22, Pro-49 to Ser-55.	S0053: 4 and L0592: 1.	
HNHHM70	757202	5276	140 - 259	15028		S0053: 2	
HNHHM80	880776	5277	46 - 285	15029	Ser-17 to Gly-23.	S0053: 4	
HNHHN03	920129	5278	159 - 362	15030		S0053: 2 and S0428: 1.	
HNHHN07	953393	5279	109 - 285	15031		S0053: 2	
HNHHN11	964657	5280	3 - 254	15032		S0053: 3	
HNHHN19	668681	5281	71 - 268	15033	Gln-1 to Asp-7, Pro-13 to Pro-18, Ser-34 to Ser-43.	S0053: 3	
HNHHN31	698035	5282	1 - 117	15034	Pro-9 to Gly-23, Pro-27 to Thr-39.	S0053: 2	
HNHHN62	745700	5283	1 - 150	15035		S0053: 2	
HNHHN93	751659	5284	203 - 358	15036	Arg-24 to Ser-32, Pro-35 to Ser-42.	S0053: 6	
HNHHO08	953398	5285	214 - 330	15037		S0053: 3	
HNHHO15	424836	5286	2 - 169	15038	Asn-17 to Asn-28.	S0053: 2	
HNHHO49	722991	5287	101 - 280	15039		S0053: 2	
HNHHO66	727167	5288	77 - 259	15040	Ile-1 to Arg-10.	S0053: 2	
HNHHO79	774038	5289	1 - 159	15041		S0053: 4	
HNHHP02	920120	5290	2 - 142	15042	Arg-25 to Gly-32.	S0053: 2	
HNHHP04	935501	5291	26 - 241	15043		S0053: 5	
HNHHP16	661962	5292	91 - 357	15044	His-4 to Gly-9, Ser-13 to Arg-19, Thr-27 to Glu-32.	S0053: 2	
HNHHR04	935502	5293	13 - 129	15045		S0053: 4	
HNHHR46	720358	5294	137 - 346	15046	Arg-20 to Ala-26, Gly-28 to Thr-35, Ala-43 to Pro-55.	S0053: 4	
HNHHR61	741830	5295	75 - 230	15047	Pro-32 to Arg-38.	S0053: 2	
HNHHR93	775194	5296	65 - 235	15048		S0053: 3	

HNHHS46	956186	5297	514 - 684	15049	Leu-52 to Cys-57.	S0053: 2, S0114: 1, S0116: 1, H0580: 1, H0179: 1, H0271: 1, H0090: 1, H0264: 1, L0805: 1, L0527: 1 and L0367: 1.		
HNHHS74	765584	5298	124 - 420	15050	Arg-3 to Ser-11.	S0053: 3		
HNHHS76	788913	5299	188 - 313	15051	Thr-8 to Gly-16, Pro-19 to Asn-29, Gln-36 to Asn-42.	S0053: 3		
HNHHS79	775192	5300	18 - 131	15052		S0053: 2 and S0216: 1.		
HNHHT35	707342	5301	30 - 404	15053	Ser-8 to Gln-13.	S0053: 2		
HNHHT55	465438	5302	3 - 431	15054	Asn-6 to Thr-11, His-35 to Ala-41.	S0053: 2		
HNHHT70	783033	5303	2 - 193	15055	Ala-3 to Lys-17, Ser-41 to Gly-50.	S0053: 2		
HNHHU46	465395	5304	3 - 287	15056	Ser-1 to Gln-6, Glu-9 to Leu-14, Asn-39 to Asn-46, Pro-65 to His-71.	S0053: 2		
HNHHW01	859935	5305	55 - 420	15057	Asn-60 to Leu-66, Pro-70 to Val-93, Ile-101 to Leu-107.	S0053: 2		
HNHHW32	699255	5306	100 - 207	15058		S0053: 2		
HNHHW58	739288	5307	3 - 203	15059	Ala-30 to Gln-39, Gly-57 to Thr-67.	S0053: 2		
HNHHW61	742071	5308	1 - 159	15060		S0053: 2		
HNHHW73	765588	5309	103 - 201	15061		S0053: 2		
HNHIA02	920094	5310	2 - 496	15062	Pro-19 to Ala-25, Ala-53 to Pro-64, Arg-71 to Cys-77.	S0053: 2		
HNHIA16	661931	5311	1 - 237	15063	Gly-13 to Lys-20, Cys-32 to Tyr-49, Glu-60 to Thr-70.	S0053: 2		
HNHIA20	669685	5312	64 - 195	15064	Arg-20 to Leu-38.	S0053: 5		
HNHIA34	706675	5313	204 - 10	15065		S0053: 2		
HNHIA58	736046	5314	117 - 272	15066	Glu-1 to Gly-8.	S0053: 2		

HNHIA64	745861	5315	112 - 360	15067		S0053: 2		
HNHIA73	559344	5316	10 - 270	15068	Ser-71 to Leu-76.	AR054: 9, AR051: 8, AR050: 8 S0053: 2		
	888195	9595	11 - 298	19347	Ser-71 to Leu-76.			
HNHIA94	970720	5317	56 - 217	15069	Glu-35 to Gly-47.	S0053: 2		
HNHIA95	908419	5318	46 - 399	15070	Lys-8 to Pro-14, Asn-47 to Cys-52.	AR089: 7, AR061: 6 S0053: 4		
HNHIB22	967038	5319	2 - 169	15071	Glu-18 to Cys-24.	S0053: 4		
HNHIB56	734763	5320	1 - 207	15072	Gly-1 to Gln-8, Gly-21 to Pro-28.	S0053: 2		
HNHIB77	781214	5321	1 - 363	15073		S0053: 2 and S0052: 1.		
HNHIB94	793210	5322	14 - 238	15074	Ala-55 to Asp-69.	S0053: 3		
HNHIC39	705375	5323	271 - 423	15075	Arg-11 to Ser-17.	S0053: 2		
HNHIC46	842003	5324	243 - 434	15076	Trp-1 to Lys-10.	H0416: 1 and S0053: 1.		
HNHIC96	779876	5325	148 - 384	15077	Pro-41 to Trp-46.	S0053: 2		
HNHID29	690646	5326	37 - 243	15078	Pro-31 to Tyr-39.	S0053: 2		
HNHID53	727151	5327	155 - 409	15079	Pro-38 to Pro-43.	S0053: 2		
HNHID55	731761	5328	92 - 268	15080	Lys-19 to Tyr-25, Gln-48 to Glu-58.	S0053: 3		
HNHID79	774044	5329	3 - 371	15081	Gly-16 to Arg-22, Thr-53 to Ala-61.	S0053: 2		
HNHIE75	765585	5330	13 - 204	15082	Gln-22 to Gly-28.	S0053: 2		
HNHIE82	921945	5331	217 - 666	15083	Gly-1 to Ile-6, Pro-14 to Pro-19.	S0053: 3, L0365: 1 and S0052: 1.		
HNHIG01	916503	5332	2 - 244	15084	Arg-2 to Pro-9, Ser-11 to Lys-26, Ser-35 to Thr-50, Phe-74 to Asp-81.	S0053: 2		
HNHIG13	465404	5333	2 - 181	15085		S0053: 3	16p11.2	147781, 172471, 182381
HNHIG19	668657	5334	3 - 431	15086	Glu-2 to Gln-9, Ala-20 to Trp-27, Ser-44 to Ala-51, Pro-64 to Ser-69, Ala-76 to Pro-81.	S0053: 2		

HNHIG37	708713	5335	31 - 285	15087	Asn-39 to Arg-44.	S0053: 3	
HNHIG68	753025	5336	284 - 412	15088		S0053: 2	
HNHIG71	465407	5337	36 - 371	15089	Pro-78 to Arg-92.	S0053: 2	
HNHII23	675262	5338	2 - 244	15090	Asn-10 to Cys-17, Pro-19 to Arg-27, Glu-39 to Pro-45.	S0053: 3	
HNHII27	681727	5339	122 - 331	15091	His-37 to Lys-43.	S0053: 2	
HNHII29	689891	5340	16 - 195	15092	Glu-11 to His-22, Pro-31 to Gln-38.	S0053: 2	
HNHII46	720333	5341	128 - 415	15093		S0053: 2	
HNHII58	739290	5342	70 - 222	15094	Arg-8 to Lys-16, Pro-40 to Arg-51.	S0053: 2	
HNHII66	684531	5343	34 - 174	15095		H0271: 1 and S0053: 1.	
HNHII71	760371	5344	179 - 325	15096	Trp-24 to Ser-32.	S0053: 2	
HNHII73	765591	5345	3 - 236	15097	His-1 to Trp-10.	S0053: 2	
HNHII82	779874	5346	84 - 257	15098		S0053: 3	
HNHII96	734114	5347	153 - 422	15099		S0053: 1 and S0216: 1.	
HNHII84	775407	5348	100 - 246	15100		S0053: 2	
HNHIS14	967087	5349	1 - 141	15101		S0053: 3	
HNHIV95	795877	5350	69 - 290	15102		S0053: 1 and S0216: 1.	
HNHIW13	657249	5351	77 - 403	15103	Thr-7 to Arg-14, Pro-33 to Ser-38, Gly-45 to Lys-75.	S0053: 2	
HNHIW35	707339	5352	147 - 299	15104	Asn-3 to Trp-14, Gly-31 to Lys-39, Val-46 to Asp-51.	S0053: 2	
HNHIIH15	859926	5353	154 - 417	15105		S0216: 2	
HNHII60	739885	5354	302 - 93	15106	Ser-17 to Val-31.	S0216: 2	
HNHII24	859923	5355	223 - 372	15107		S0216: 2	
HNHII72	761427	5356	115 - 225	15108		S0216: 2	
HNHII88	786555	5357	1 - 177	15109	Gly-6 to Leu-13.	S0216: 2	
HNHIIK73	762011	5358	51 - 443	15110	Asp-15 to Ser-20, Arg-40 to Gly-46.	AR061: 7, AR089: 4 S0216: 2	
HNHIIK30	793658	5359	1 - 138	15111		S0216: 2 and S0428: 1.	
HNHIIK48	721149	5360	167 - 358	15112	Gln-51 to Asp-62.	S0216: 2	

HNHKKP72	761432	5361	526 - 726	15113			S0216: 2	
HNHKS69	750487	5362	92 - 241	15114	Ser-8 to Ala-15.		S0053: 1 and S0216: 1.	
HNHKS75	760926	5363	79 - 324	15115	Thr-16 to Ala-24, Asn-33 to Asn-38.		S0216: 2	
HNHKT06	934643	5364	30 - 137	15116	Ser-6 to Asn-18.		S0216: 2	
HNHKT75	766924	5365	3 - 119	15117			S0216: 2	
HNHKKV67	751205	5366	205 - 375	15118	Lys-26 to Met-31.		S0216: 2	
HNHKKW47	786020	5367	14 - 193	15119	Glu-36 to Ser-45.		H0402: 1 and S0216: 1.	
HNHKKW76	767917	5368	42 - 290	15120	Pro-43 to Gln-50.		S0216: 1 and H0445: 1.	
HNHKKW81	761429	5369	247 - 504	15121	Gln-1 to Glu-6, Arg-22 to Gly-29.		S0216: 2	
HNHKKW83	780650	5370	1 - 531	15122	Gln-32 to His-37, Ala-63 to His-69, Pro-94 to Ala-110, Ser-136 to Gln-145.		S0216: 2	
HNHKKX10	963575	5371	251 - 409	15123			S0216: 3	
HNHKKX38	796804	5372	334 - 477	15124	Ser-1 to Lys-7, Glu-15 to Val-23.		S0002: 1 and S0216: 1.	
HNHKKX47	789625	5373	163 - 387	15125			S0428: 1 and S0216: 1.	
HNHKKX77	771530	5374	78 - 377	15126			S0216: 2	
HNHKKZ11	960164	5375	85 - 288	15127	Asn-35 to Leu-41, Tyr-45 to Phe-50, Thr-58 to Thr-67.		S0216: 2	
HNHLA08	958422	5376	107 - 340	15128	Ser-15 to Leu-21.		S0428: 1 and S0216: 1.	
HNHLA16	784264	5377	557 - 814	15129			L0764: 1, S0216: 1 and H0522: 1.	
HNHLA55	754480	5378	1 - 420	15130	Ala-63 to Cys-71, Pro-80 to Gly-89, Pro-102 to Gly-116.		S0216: 2	
HNHLA71	761430	5379	388 - 585	15131	Glu-10 to Glu-21, Ser-39 to Ala-44, Gly-48 to Met-53.		S0216: 2	
HNHLA89	786461	5380	2 - 310	15132	Arg-16 to Gly-23, Trp-60 to Trp-65.		H0254: 1 and S0216: 1.	
HNHLA90	970724	5381	241 - 609	15133	Gln-33 to Gly-42, Ala-59 to Arg-72.		S0052: 1, S0053: 1 and S0216: 1.	



HNHLB08	958416	5382	92 - 268	15134	Gly-95 to Ser-104.	S0216: 2	
HNHLC69	754466	5383	84 - 356	15135	Gln-24 to Pro-30, Ser-52 to Gly-59.	S0216: 2	
HNHLD08	859857	5384	2 - 319	15136	Ser-58 to Ala-66.	S0216: 2	
					Leu-38 to Gly-46, Leu-49 to Gln-56, Pro-64 to Ser-70.		
HNHLD13	805983	5385	208 - 378	15137	Gly-1 to Ser-6.	S0216: 2	
HNHLD37	859859	5386	123 - 353	15138	Val-7 to Ser-15, Pro-29 to Ser-35.	S0053: 1 and S0216: 1.	
HNHLD81	779345	5387	149 - 301	15139	Lys-3 to His-8.	S0216: 2	
HNHLE72	966149	5388	130 - 246	15140		S0216: 2	
HNHLF25	859856	5389	1 - 258	15141		S0053: 1 and S0216: 1.	
HNHLF33	908449	5390	1 - 255	15142	Phe-5 to Gly-16, Thr-18 to Met-25, Lys-55 to Ser-63.	S0053: 1 and S0216: 1.	
HNHLF58	859858	5391	3 - 233	15143	Thr-2 to Thr-12, Val-21 to Leu-36, Gln-49 to Ser-56.	S0216: 2	
HNHLP56	883321	5392	100 - 213	15144		S0053: 1 and S0216: 1.	
HNHLP69	754440	5393	73 - 180	15145		S0053: 1 and S0216: 1.	
HNHLP77	967239	5394	176 - 466	15146		S0052: 1 and S0216: 1.	
HNHLQ36	760460	5395	161 - 454	15147		S0053: 1 and S0216: 1.	
HNHLQ61	795942	5396	119 - 289	15148		S0052: 1 and S0216: 1.	
HNHLQ80	775621	5397	17 - 253	15149		H0179: 2 and S0216: 1.	
HNHLR73	761855	5398	3 - 179	15150	Gly-53 to Cys-59.	S0216: 2	
HNHLR91	789786	5399	160 - 276	15151		S0216: 2	
HNHLS04	927077	5400	1 - 168	15152	Thr-18 to Gly-24, Asn-39 to Gly-49.	S0216: 2	
HNHLS53	827329	5401	45 - 176	15153	Gly-28 to Val-34.	S0216: 2	
HNHLT49	784983	5402	112 - 5	15154	Lys-1 to Gly-14.	S0216: 2	
HNHLV84	782319	5403	99 - 230	15155		S0216: 2	
HNHLW93	791782	5404	227 - 448	15156		S0002: 1 and S0216: 1.	
HNHLX82	779298	5405	2 - 151	15157	Gln-37 to Lys-50.	S0216: 2	
HNHMC78	772969	5406	200 - 319	15158		S0216: 2	

HNHMD85	876673	5407	7 - 159	15159	Tyr-6 to Gln-28.	S0053: 1 and S0216: 1.	
HNHMD25	784479	5408	199 - 597	15160	Pro-38 to Leu-47.	L0747: 2, S0052: 1 and S0216: 1.	
HNHMQ93	791798	5409	32 - 145	15161	Leu-17 to Asp-25.	S0216: 2	
HNHMR04	927056	5410	100 - 420	15162		S0053: 1 and S0216: 1.	
HNHMR43	937561	5411	216 - 362	15163		S0053: 1 and S0216: 1.	
HNHMR73	967614	5412	240 - 428	15164	Lys-7 to Ser-20, Ser-32 to Ser-37.	S0114: 1 and S0216: 1.	
HNHMS77	916609	5413	1 - 144	15165		S0053: 1 and S0216: 1.	
HNHMS93	791807	5414	3 - 167	15166	Arg-21 to Trp-28, Thr-30 to Gly-36.	H0421: 1 and S0216: 1.	
HNHMT53	925689	5415	205 - 339	15167		S0216: 2	
HNHMT54	790765	5416	132 - 263	15168	Phe-1 to Ser-12, Thr-18 to Thr-27.	S0428: 1 and S0216: 1.	
HNHMT90	937564	5417	123 - 230	15169		S0216: 2	
HNHMT91	789785	5418	2 - 130	15170	Thr-23 to Gln-28.	H0265: 1 and S0216: 1.	
HNHMTW83	780558	5419	30 - 257	15171	Arg-3 to Asn-10, Lys-27 to Leu-32, Met-35 to Ile-41, Pro-47 to Asn-54.	S0053: 1 and S0216: 1.	
HNHMX45	953411	5420	2 - 379	15172		H0402: 1 and S0216: 1.	
HNHMY43	859841	5421	1 - 225	15173	Pro-19 to Gly-27.	S0216: 2	
HNHMY45	958409	5422	24 - 239	15174	Glu-25 to Cys-33.	S0216: 2	
HNHMY59	883324	5423	113 - 400	15175		S0216: 2	
HNHMY71	761436	5424	3 - 236	15176	Pro-31 to Gly-36.	S0216: 2	
HNHMT07	952290	5425	115 - 369	15177	Gly-2 to Cys-10.	S0216: 2, L0361: 2 and L0742: 1.	
HNHMT59	761661	5426	165 - 278	15178		S0216: 1 and H0445: 1.	
HNHMT86	784999	5427	1 - 93	15179	Asn-7 to Glu-17, Ser-24 to Lys-31.	S0216: 2	
HNHMT89	786457	5428	146 - 313	15180		S0216: 2	
HNHNA02	918720	5429	73 - 228	15181	Ala-22 to Lys-30.	S0053: 1 and S0216: 1.	
HNHNA69	754452	5430	11 - 160	15182		S0216: 2	
HNHNB77	771523	5431	1 - 243	15183	Ser-31 to Lys-36, Ser-76 to Ile-81.	S0053: 1 and S0216: 1.	

HNHNC82	779321	5432	146 - 310	15184			S0216: 2	
HNHND80	775612	5433	234 - 431	15185			S0053: 1 and S0216: 1.	
HNHNE11	966146	5434	3 - 95	15186			S0216: 2	
HNHNE59	771529	5435	190 - 351	15187			S0216: 3	
HNHNE83	780628	5436	2 - 346	15188		Asp-1 to Arg-6, Gln-53 to Ser-60, Ile-66 to Lys-72, Glu-76 to Lys-85, Gly-91 to Ser-99.	H0271: 3, H0250: 2, H0635: 2, S0216: 2, H0254: 1, H0638: 1, H0069: 1, H0416: 1, H0090: 1, L0761: 1, L0800: 1, L0776: 1, L0789: 1 and S0052: 1.	
HNHNG73	761849	5437	226 - 456	15189			S0052: 1 and S0216: 1.	
HNHNI10	963571	5438	1 - 225	15190			S0116: 1 and S0216: 1.	
HNHNI14	923079	5439	44 - 178	15191			S0216: 2	
HNHNI08	859837	5440	3 - 242	15192		Thr-23 to Thr-28, His-34 to Met-39, Val-69 to Arg-76.	S0053: 1 and S0216: 1.	
HNHNK71	775635	5441	3 - 179	15193		Met-4 to Gly-9, Ser-12 to Leu-20.	S0216: 2	
HNHNL70	756633	5442	147 - 341	15194			S0216: 2	
HNHNN56	859834	5443	144 - 371	15195		Pro-38 to Gln-44.	L0368: 1, S0053: 1 and S0216: 1.	
HNHNO84	782328	5444	140 - 253	15196			S0216: 1 and H0445: 1.	
HNHNP80	775631	5445	54 - 185	15197			S0053: 1 and S0216: 1.	
HNHNP86	784788	5446	122 - 334	15198			S0216: 2	
HNHNU23	968911	5447	179 - 436	15199		Met-1 to Ala-12.	S0216: 2 and L0748: 1.	
HNHNU27	920254	5448	272 - 424	15200		Tyr-9 to Arg-14, Glu-22 to Pro-34.	H0402: 1 and S0216: 1.	
HNHNV52	859831	5449	82 - 213	15201		Arg-12 to Tyr-17.	S0216: 2	
HNHNW64	859832	5450	1 - 222	15202		Lys-14 to Pro-19.	S0216: 2	
HNHNX04	927027	5451	1 - 168	15203			S0216: 2	
HNHNX88	959011	5452	2 - 157	15204			S0052: 1, S0428: 1, S0216: 1 and H0444: 1.	
HNHQA03	923052	5453	122 - 457	15205			S0052: 1 and S0216: 1.	
HNHOC03	922892	5454	164 - 280	15206			H0551: 1 and S0216: 1.	
HNHOD01	915341	5455	28 - 219	15207		Arg-1 to Tyr-6,	S0052: 1 and S0216: 1.	

HNHOD62	852995	5456	143 - 319	15208	Leu-27 to Leu-41.		H0589: 1, S0052: 1 and S0216: 1.		
HNHOE53	767329	5457	285 - 422	15209			S0053: 1 and S0216: 1.		
HNHOF03	922028	5458	3 - 197	15210	Ser-10 to Ser-15, Glu-44 to Phe-65.		T0041: 1, S0428: 1 and S0216: 1.		
HNHOF07	952291	5459	90 - 326	15211	Lys-1 to Thr-18, Leu-28 to Arg-34, His-46 to Thr-59, Pro-62 to Gln-69.		T0041: 1, S0216: 1 and H0576: 1.		
HNHOF92	790934	5460	158 - 358	15212	Gly-19 to Lys-29.		H0457: 1 and S0216: 1.		
HNHOG84	782316	5461	331 - 543	15213	Lys-28 to Cys-37, Cys-41 to Pro-48, Leu-61 to Thr-69.		S0216: 2		
HNHOG86	785004	5462	128 - 394	15214	Pro-1 to Ala-6, Pro-26 to Gly-31, Arg-50 to Leu-56, Ser-69 to Gly-76, Ala-80 to Glu-89.		S0216: 2		
HNHOH10	963562	5463	298 - 558	15215	Tyr-28 to Ala-37.		S0216: 2		
HNHOJ03	923072	5464	464 - 712	15216	Cys-15 to Leu-24.		S0216: 2 and L0749: 1.		
HNHOM92	792328	5465	179 - 310	15217	Phe-12 to Arg-20.		H0402: 1 and S0216: 1.		
HNHOO16	959616	5466	549 - 845	15218			H0423: 2, H0486: 1, S0216: 1 and L0753: 1.		
HNHOO25	859826	5467	229 - 408	15219	Leu-12 to Asp-17, Lys-23 to Gln-29.		S0053: 1 and S0216: 1.		
HNHOO74	915462	5468	24 - 467	15220	Thr-13 to Arg-22, Arg-78 to Pro-83.		H0254: 1, H0264: 1 and S0216: 1.		
HNHOO87	787562	5469	72 - 260	15221	Glu-5 to Pro-11.		S0216: 2		
HNHOP10	963539	5470	298 - 477	15222	Ala-1 to Trp-7, Lys-21 to Ala-28.		S0053: 1 and S0216: 1.		
HNHOQ76	767877	5471	3 - 341	15223	Gly-1 to Trp-12, Lys-14 to Leu-19, Lys-52 to Ser-59.		S0216: 2		
HNHOS70	756593	5472	3 - 323	15224	Met-19 to Gly-28, Gly-33 to Ser-51.		H0402: 1 and S0216: 1.		

							Asn-56 to Gly-63, Asp-83 to Tyr-88.				
HNHOS75	766736	5473	246 - 377	15225					S0216: 2		
HNHOT10	963631	5474	310 - 107	15226					S0216: 2		
HNHOT11	923065	5475	258 - 482	15227					S0216: 2		
HNHOT95	795331	5476	100 - 2	15228					S0216: 2		
HNHOU20	773797	5477	28 - 138	15229			Ala-12 to Ser-18, Phe-31 to His-37.		S0053: 1 and S0216: 1.		
HNHOU68	806090	5478	2 - 151	15230					S0216: 2		
HNHOU94	793514	5479	1 - 282	15231			Gly-24 to Ser-31.		S0216: 2		
HNHOX09	854882	5480	367 - 705	15232			Gly-1 to Ser-6, Pro-41 to Gly-48, Ser-79 to Arg-92, Pro-104 to Asn-112.		S0216: 2 and L0589: 1.		
HNHOX10	963545	5481	2 - 307	15233			Pro-3 to Ser-15, Gly-57 to Gly-63, Ser-89 to His-99.		S0216: 3		
HNHOX31	859820	5482	33 - 491	15234					S0216: 2		
HNHOX89	786411	5483	30 - 254	15235			Ser-38 to His-57.		S0216: 2		
HNHOZ04	923013	5484	68 - 298	15236			Lys-1 to Pro-8, Leu-11 to Phe-20.		S0216: 2		
HNHOZ90	787488	5485	106 - 657	15237			Ser-27 to His-32, Pro-36 to Gly-41, Gly-49 to His-55, Trp-84 to Lys-96, Ser-118 to Gln-130, Pro-144 to Gly-157.		S0053: 1 and S0216: 1.		
HNHPC08	952246	5486	28 - 198	15238			Arg-21 to Val-38, Ala-42 to Leu-47.		S0216: 2		
HNHPC36	859819	5487	41 - 259	15239					S0216: 2		
HNHPC72	772970	5488	38 - 340	15240			Arg-41 to Val-47, Ala-80 to Gln-89.		S0216: 2		
HNHPD04	974103	5489	59 - 325	15241			Gly-1 to Val-8, Phe-12 to Arg-30, Arg-43 to His-58, Gln-60 to Val-66.		S0053: 2 and S0216: 1.		

HNHPD07	952244	5490	174 - 389	15242	Leu-83 to Glu-88.			
HNHPD13	859815	5491	2 - 322	15243	Gln-23 to Lys-33.	S0216: 2		
					His-46 to Cys-51,	S0216: 2		
					Pro-61 to Leu-67,			
					Thr-76 to Ser-81,			
					Pro-83 to Cys-89.			
HNHPE86	784919	5492	3 - 311	15244		S0216: 2		
HNHPG61	784432	5493	27 - 458	15245	Ala-1 to Gly-13,	S0052: 1 and S0216: 1.		
					Gln-48 to Ser-60,			
					His-80 to Ser-85.			
HNHPG66	859812	5494	299 - 484	15246	Cys-18 to His-23.	S0428: 1 and S0216: 1.		
HNHPG85	783821	5495	185 - 367	15247	Ile-33 to Leu-38.	S0053: 1 and S0216: 1.		
HNHPH29	934456	5496	233 - 451	15248	Ser-33 to Lys-38,	S0216: 2		
					Arg-45 to Thr-51.			
HOIAE91	935322	5497	101 - 520	15249	Ser-30 to Phe-37,	H0250: 3, S3016: 1, H0402:		
					Ser-39 to Leu-45,	1, H0625: 1, L0509: 1,		
					Asp-53 to Thr-60,	L0791: 1, S0292: 1, H0521:		
					Glu-74 to Gly-79,	1, H0436: 1 and S3020: 1.		
					Gly-86 to Lys-100,			
					Gln-106 to Ser-124.			
HPSAA31	739041	5498	29 - 280	15250	Tyr-1 to Lys-9,	H0305: 2, H0589: 1 and		
					Glu-29 to Ser-36,	H0074: 1.		
					Ser-52 to Asn-60.			
HPSAA50	723558	5499	70 - 297	15251	Gln-1 to Lys-6,	H0074: 2		
					Gly-18 to Asp-24.			
HPSAA63	536776	5500	87 - 182	15252		H0074: 3		
HPSAB25	677474	5501	275 - 192	15253		H0074: 2		
HSATA03	925082	5502	49 - 174	15254		S0114: 1 and H0264: 1.		
HSATA86	683251	5503	78 - 227	15255	Ser-1 to Gln-11,	S0114: 2 and L0748: 2.		
					Ile-36 to Glu-50.			
HSATE44	666207	5504	129 - 338	15256	His-4 to Gln-9,	S0114: 1 and H0318: 1.		
					Gly-32 to Ser-42.			
HSATE89	531280	5505	148 - 375	15257	Leu-5 to Lys-12,	S0114: 2		
					Lys-27 to Arg-32.			
HSATF05	907593	5506	15 - 200	15258	Glu-1 to Ser-7,	S0114: 1, H0306: 1 and		
					Thr-17 to Ser-24.	L0761: 1.		

HSATF79	781718	5507	2 - 205	15259			S0114: 1 and H0521: 1.	
HSATJ56	716434	5508	240 - 404	15260			S0114: 1 and H0445: 1.	
HSATJ84	781405	5509	196 - 315	15261			S0114: 2 and L0748: 1.	
HSATM25	688006	5510	173 - 418	15262			S0114: 1 and H0436: 1.	
HSATM79	677717	5511	3 - 437	15263		Pro-39 to Lys-54.	S0114: 1 and H0591: 1.	
HSATQ28	866951	5512	3 - 164	15264			AR089: 120, AR061: 12 S0114: 2, H0422: 2 and L0748: 1.	
HSATQ76	765376	5513	319 - 582	15265		Val-6 to Leu-23.	S0114: 1, H0581: 1 and L0756: 1.	
HSATR17	888871	5514	255 - 389	15266			AR051: 5, AR054: 3, AR050: 0 S0114: 1 and H0272: 1.	
HSATR27	713143	5515	1 - 180	15267		Arg-7 to Gly-12.	S0114: 3	
HSATR32	699586	5516	2 - 256	15268			S0114: 2 and H0581: 1.	
HSATR76	659994	5517	120 - 305	15269			H0445: 2, S0114: 1 and L0745: 1.	
HSATS23	524369	5518	19 - 123	15270			S0114: 2	
HSATS29	689823	5519	116 - 214	15271			S0114: 1 and H0444: 1.	
HSATS56	732640	5520	63 - 242	15272		Thr-38 to Ser-47.	S0114: 1 and H0576: 1.	
HSATT96	796565	5521	252 - 422	15273		Tyr-14 to Ser-25.	S0114: 1 and H0318: 1.	
HSATV34	732184	5522	459 - 325	15274			S0114: 1 and H0423: 1.	
HSATW22	531171	5523	138 - 266	15275			S0114: 2, L0758: 2, L0041: 5 1, L0659: 1 and L0747: 1.	
HSATX46	866959	5524	2 - 250	15276		Glu-12 to His-20.	S0114: 2 and S0426: 1.	
HSUAUA88	757624	5525	86 - 313	15277		Gly-9 to Asn-15, Glu-29 to Phe-41, Trp-65 to Cys-70.	S0114: 1 and H0422: 1.	
HSUAUB19	954055	5526	112 - 204	15278		Arg-11 to Ser-17, Ser-24 to Cys-29.	S0114: 2	
HSUAUB90	733714	5527	3 - 131	15279			H0265: 1 and S0114: 1.	
HSAUD05	932502	5528	1 - 183	15280		Ser-6 to Glu-11.	S0114: 2 and H0264: 1.	
HSAUD45	531170	5529	1 - 237	15281			S0114: 1 and S0053: 1.	
HSUAUE25	571385	5530	64 - 177	15282		Leu-26 to Cys-33.	S0114: 1 and S0134: 1.	
HSUAUE40	866933	5531	124 - 405	15283			S0114: 2	

HSAUF18	527038	5532	17 - 328	15284	Leu-16 to Pro-22.	S0114: 1, H0179: 1, S0052: 1 and L0751: 1.	
HSAUG15	933628	5533	690 - 836	15285	Lys-18 to Ile-23.	L0766: 3, S0114: 1, H0063: 1, L0761: 1, L0805: 1, L0776: 1, L0527: 1 and L0744: 1.	
HSAUH65	933873	5534	177 - 278	15286		S0114: 2	
HSAUH69	870437	5535	528 - 758	15287	Leu-1 to Cys-6.	L0766: 4, L0740: 4, L0777: 2, S0114: 1 and S0134: 1.	
HSAUI05	856886	5536	156 - 368	15288		S0114: 1 and H0254: 1.	
HSAUI26	950714	5537	110 - 211	15289		S0114: 1 and H0551: 1.	
HSAUL67	866919	5538	204 - 380	15290		S0114: 1 and H0254: 1.	
HSAUQ94	526936	5539	82 - 192	15291	His-6 to Ser-12, Asn-24 to Asn-32.	S0114: 3	
HSAUT77	557848	5540	2 - 163	15292	Arg-31 to Gly-37.	S0114: 2	
HSAUW10	967600	5541	121 - 360	15293	Leu-6 to Gly-12, Pro-14 to Ser-20, Thr-38 to Ile-46.	S0114: 2	
HSAUW71	537544	5542	77 - 274	15294	Ser-1 to Thr-6.	S0114: 2	
HSAUZ38	744899	5543	215 - 463	15295	Gly-58 to Gly-66.	S0114: 3, H0445: 3, L0002: 1 and L0803: 1.	
HSAUZ57	685253	5544	388 - 579	15296		S0114: 2, H0402: 1 and L0748: 1.	
HSAVA44	866900	5545	1 - 210	15297	His-22 to Thr-28.	S0114: 2	
HSAVA61	742073	5546	1 - 153	15298	Phe-8 to His-16.	S0114: 1, H0087: 1 and L0731: 1.	2
HSAVB05	932496	5547	41 - 157	15299		S0114: 1 and S0116: 1.	
HSAVB19	866899	5548	5 - 322	15300	Arg-1 to Pro-13, Ala-40 to Gly-49.	S0114: 2	
HSAVC41	584978	5549	1 - 132	15301	Thr-1 to Asp-10.	S0114: 2	
HSAVC76	967286	5550	173 - 325	15302		S0114: 1 and S0134: 1.	
HSAVF35	932462	5551	84 - 257	15303	Asp-25 to Phe-35.	H0265: 1 and S0114: 1.	
HSAVG81	959949	5552	335 - 547	15304	Leu-41 to Phe-47, Val-51 to Arg-59.	S0114: 2, H0439: 1, L0794: 1, L0777: 1 and L0599: 1.	
HSAVH17	417452	5553	37 - 186	15305	Cys-34 to Thr-39.	S0114: 2	
HSAVH95	574243	5554	142 - 273	15306		S0114: 1, H0318: 1 and	



HSADV144	715837	5555	82 - 225	15307	Lys-1 to Ser-6.	L0749: 1.	
HSADV146	717837	5556	245 - 460	15308	Tyr-11 to Trp-18, Arg-41 to Val-53.	S0114: 1 and H0445: 1. S0114: 1 and S0002: 1.	
HSADV159	579060	5557	110 - 376	15309		S0114: 1 and H0063: 1.	
HSADV177	739521	5558	1 - 177	15310		S0114: 2	
HSADV143	714418	5559	174 - 503	15311	Phe-34 to Cys-39, Pro-77 to Tyr-82, Arg-105 to Arg-110.	L0748: 6, L0749: 2, S0114: 1 and S0426: 1.	
HSADV07	935797	5560	81 - 233	15312	Lys-8 to Arg-15, Thr-21 to Lys-36.	S0114: 1, H0402: 1 and L0521: 1.	
HSADV17	920412	5561	221 - 430	15313	Ser-11 to Cys-21.	S0114: 1 and H0445: 1.	
HSADV037	574709	5562	2 - 265	15314	Gly-1 to Ser-18.	H0556: 1, S0114: 1 and H0090: 1.	
HSADV053	531111	5563	115 - 249	15315		S0114: 2	
HSADV082	531398	5564	131 - 60	15316		S0114: 1 and H0179: 1.	
HSADV10	964950	5565	240 - 416	15317		S0114: 2	
HSADVQ46	574784	5566	3 - 254	15318	Ala-1 to Arg-18.	S0114: 1, H0271: 1 and L0657: 1.	
HSADVQ56	522431	5567	75 - 347	15319		S0114: 2	
HSAVR06	936049	5568	11 - 91	15320		S0114: 2	
HSAVR74	827090	5569	2 - 112	15321	Lys-22 to Lys-27.	S0114: 2	
HSAVS17	574269	5570	3 - 71	15322	Gln-2 to Thr-13.	S0114: 2	
HSAVS46	526756	5571	1 - 249	15323		S0114: 2	
HSAVS76	866888	5572	2 - 94	15324	Gln-7 to Ser-19.	S0114: 2	
HSAVT18	920565	5573	107 - 328	15325		S0114: 1 and H0305: 1.	
HSAVT24	577549	5574	175 - 474	15326		S0114: 3, L0776: 1, H0521: 1 and H0423: 1.	
HSAVT95	925582	5575	38 - 232	15327	Glu-39 to Lys-47.	S0114: 1, H0306: 1 and L0527: 1.	
HSAVU11	967490	5576	17 - 142	15328		S0114: 2	
HSAVU14	920695	5577	91 - 378	15329		S0114: 2	
HSAVW44	574267	5578	333 - 455	15330		S0114: 2	
HSAVX96	744614	5579	49 - 282	15331	Gln-4 to Lys-16.	S0114: 1 and H0580: 1.	
HSAVY34	574287	5580	3 - 221	15332	Arg-34 to Glu-40.	S0114: 3 and S0134: 1.	

HSAVY58	526958	5581	36 - 176	15333			S0114: 2 and H0264: 1.		
HSAVZ35	842039	5582	239 - 364	15334			H0159: 1 and S0114: 1.		
HSAVZ65	574192	5583	158 - 328	15335			S0114: 2		
HSAWA25	577281	5584	16 - 177	15336		Asn-14 to His-21.	H0445: 2, S0114: 1 and L0766: 1.		
HSAWC89	785988	5585	116 - 913	15337		Asn-18 to Leu-23, Tyr-41 to Gly-46, Asp-101 to Asp-110.	H0265: 1, S0114: 1, H0421: 1 and L0596: 1.		
HSAWG75	574223	5586	58 - 159	15338			S0114: 1 and H0318: 1.		
HSAWH47	720535	5587	328 - 522	15339		Leu-1 to Cys-7, Phe-55 to Trp-61.	S0114: 1, H0638: 1 and L0748: 1.		
HSAWI18	666842	5588	150 - 335	15340		Tyr-35 to Ser-41.	S0114: 1, H0444: 1 and H0543: 1.		
HSAWI50	742713	5589	2 - 226	15341		Val-7 to Val-15.	S0114: 1 and H0607: 1.		
HSAWI36	866874	5590	478 - 837	15342		Thr-1 to Lys-12.	S0114: 2, L0743: 2, L0638: 1, L0800: 1, L0659: 1, L0758: 1 and L0759: 1.		
HSAWJ93	751429	5591	2 - 148	15343			S0114: 1 and H0444: 1.		
HSAWL80	792893	5592	187 - 324	15344		Val-10 to His-15, Val-35 to Leu-40.	S0114: 2		
HSAWN67	883825	5593	189 - 665	15345			S0114: 1 and H0436: 1.		
HSAWT91	522474	5594	104 - 178	15346			S0114: 1 and S0053: 1.		
HSAWU96	577267	5595	147 - 257	15347			S0114: 1, H0444: 1 and H0445: 1.		
HSAWV18	666841	5596	5 - 103	15348			S0114: 1, H0305: 1 and L0766: 1.		
HSAWY11	967489	5597	237 - 365	15349			S0114: 1 and H0445: 1.		
HSAXB47	720536	5598	3 - 578	15350		Gly-15 to Phe-21, Asp-79 to Glu-93, Gly-103 to Phe-111.	S0114: 1, S0426: 1 and H0521: 1.		
HSAXB84	574172	5599	117 - 416	15351		Asp-8 to Cys-20, Arg-41 to Asp-58.	S0114: 2		
HSAXB95	796006	5600	2 - 328	15352		Pro-4 to Pro-11.	S0114: 1 and S0216: 1.		
HSAXC60	579044	5601	122 - 286	15353			S0114: 1, S0134: 1 and H0457: 1.		
HSAXD03	924900	5602	162 - 254	15354			S0114: 2		

HSAXD08	959939	5603	155 - 283	15355	Pro-11 to Thr-20.	S0114: 1 and H0341: 1.		
HSAXD18	575543	5604	97 - 2	15356		S0114: 4		
HSAXD73	574274	5605	178 - 396	15357	Lys-12 to Leu-17, Glu-53 to Cys-61.	S0114: 2 and L0754: 1.		
HSAXD75	526777	5606	177 - 332	15358	Gly-29 to Asp-36.	S0114: 2		
HSAXF03	924899	5607	34 - 222	15359		S0114: 2 and L0766: 1.		
HSAXG18	574165	5608	190 - 297	15360		S0114: 1 and H0090: 1.		
HSAXG30	574280	5609	3 - 236	15361	Ser-40 to Ser-47.	S0114: 2		
HSAXI07	953871	5610	16 - 105	15362		S0114: 2	7q31.1-q31.2	126650, 126650, 150240, 180105, 222800, 246900, 602421, 602421, 602421
HSAXI47	574159	5611	340 - 456	15363		S0114: 1 and H0063: 1.		
HSAXI62	531114	5612	59 - 211	15364	His-37 to Pro-51.	S0114: 2		
HSAXJ25	964753	5613	38 - 184	15365	Lys-26 to Ser-32.	S0114: 1, L0748: 1 and H0445: 1.		
HSAXL83	866840	5614	1 - 138	15366	Thr-30 to Ala-36.	S0114: 2		
HSAXM33	866837	5615	1 - 291	15367	Ile-18 to Pro-25, Val-33 to Gln-42, Phe-46 to Val-51, Pro-82 to Asp-97.	S0114: 2		
HSAXM34	526939	5616	3 - 254	15368	Gly-14 to His-26.	S0114: 2 and S0116: 1.		
HSAXM44	574173	5617	1 - 150	15369		S0114: 2		
HSAXM68	754061	5618	167 - 322	15370		S0114: 2		
HSAXM91	784470	5619	120 - 221	15371	Asp-27 to Ser-34.	S0114: 2		
HSAXN51	574286	5620	188 - 445	15372	Pro-34 to Lys-47.	S0114: 2, S0216: 2 and S0134: 1.		
HSAXO52	726053	5621	419 - 547	15373	Gln-32 to Asn-37.	S0114: 1, L0586: 1 and H0423: 1.		
HSAXO53	727491	5622	2 - 130	15374	Ile-1 to Leu-11, Glu-31 to Thr-37.	H0186: 1 and S0114: 1.		
HSAXO65	713784	5623	45 - 248	15375		S0114: 2		
HSAXP51	725673	5624	194 - 319	15376	Thr-3 to Arg-12, Arg-29 to Glu-35.	S0114: 2 and H0581: 1.		
HSAXR08	959441	5625	192 - 521	15377	Leu-3 to Ser-9.	L0748: 2, S0114: 1, H0581:		

HSAXR83	866831	5626	33 - 362	15378	Gly-105 to Ala-110.	1 and L0367: 1.	
HSAXS44	715896	5627	2 - 148	15379	Pro-16 to Lys-21.	S0114: 1 and H0305: 1.	
HSAYA60	650857	5628	1 - 342	15380	Lys-30 to Phe-41.	S0114: 2	
HSAYA80	751139	5629	145 - 522	15381	Gly-1 to Ala-6.	S0114: 2	
HSAYA95	856883	5630	145 - 339	15382	Ala-1 to Gly-8, Ala-19 to Pro-36.	S0114: 2	
HSAYC17	663910	5631	170 - 376	15383	Glu-44 to Ser-55, Thr-63 to Lys-68.	S0114: 1, H0254: 1, H0255: 1 and S0002: 1.	
HSAYC39	705409	5632	147 - 374	15384	Lys-2 to Arg-7, Gln-13 to Trp-24, Ser-37 to Thr-44.	S0114: 1, L0309: 1 and H0445: 1.	
HSAYC84	723425	5633	219 - 437	15385		S0114: 1 and H0436: 1.	
HSAYG62	745692	5634	75 - 275	15386		S0114: 1, H0318: 1, L0803: 1, L0748: 1 and L0754: 1.	
HSAYH09	971427	5635	3 - 206	15387	Arg-22 to Gly-28, Pro-41 to Pro-48, Gly-56 to Ser-67.	S0114: 2	
HSAYH38	731434	5636	451 - 687	15388	Ala-20 to Gly-36.	S0114: 4, H0556: 1 and H0187: 1.	
HSAYK03	881282	5637	3 - 443	15389	His-1 to His-6, Thr-26 to Ser-31, Pro-92 to Val-97, Gly-114 to Gly-122.	S0114: 1, H0305: 1 and H0589: 1.	
HSAYK26	681730	5638	175 - 357	15390	Ser-24 to His-34.	S0114: 1 and H0305: 1.	
HSAYK79	699056	5639	153 - 266	15391	Ser-1 to Asp-30.	S0114: 2	
HSAYL46	720352	5640	266 - 448	15392		S0114: 1 and H0444: 1.	
HSAYL64	765847	5641	2 - 136	15393		S0114: 2 and L0749: 1.	
HSAYL72	951025	5642	70 - 237	15394		S0114: 2 and H0591: 1.	
HSAYL93	920778	5643	49 - 291	15395	Arg-8 to Pro-16, Leu-19 to Asn-28.	S0114: 1 and S0134: 1.	
HSAYM75	719241	5644	3 - 116	15396		S0114: 1 and H0264: 1.	
HSAYM91	959486	5645	86 - 232	15397	Lys-8 to Cys-13.	S0114: 1 and H0318: 1.	
HSAYN79	471037	5646	276 - 434	15398	Gln-5 to Leu-13.	S0114: 2	
						S0114: 1, S0002: 1, S0426: 1 and H0543: 1.	

HSAYO71	745703	5647	156 - 329	15399	Pro-21 to Gln-31.	S0114: 2	
HSAYR35	675897	5648	75 - 191	15400		S0114: 2	
HSAYS26	681725	5649	3 - 170	15401		S0114: 2 and L0794: 1.	
HSAYSS4	730688	5650	242 - 433	15402	Ser-8 to Val-13.	S0114: 1, L0772: 1, L0766: 1 and H0423: 1.	
HSAYW12	856909	5651	87 - 257	15403	Ser-34 to Met-46.	S0114: 1, H0255: 1 and H0423: 1.	
HSAYW75	866818	5652	1 - 189	15404	Gly-1 to Ser-6, Ala-32 to Asp-44.	S0114: 1 and H0576: 1.	
HSAZC11	964994	5653	27 - 206	15405	Glu-46 to Leu-51.	S0114: 2	
HSAZC18	666442	5654	92 - 220	15406		S0114: 2	
HSAZC33	702423	5655	166 - 270	15407		S0114: 3	
HSAZC41	712326	5656	148 - 285	15408	Pro-28 to Val-34.	S0114: 2	
HSAZC69	757577	5657	85 - 231	15409		S0114: 2	
HSAZC70	866814	5658	2 - 238	15410		S0114: 3 and H0402: 1.	
HSAZC72	509611	5659	196 - 366	15411	Thr-1 to Ala-6.	S0114: 3	
HSAZC91	790196	5660	122 - 286	15412		S0114: 2	
HSAZD30	692708	5661	161 - 313	15413		S0114: 2	
HSAZE47	887420	5662	77 - 517	15414	His-10 to Ile-16, Arg-27 to Ser-34, Arg-44 to Asn-49, Tyr-77 to Cys-89.	AR050: 2, AR054: 1, AR051: 1, S0114: 2	
HSAZE66	725704	5663	2 - 247	15415		S0114: 1 and S0052: 1.	
HSAZF25	787070	5664	3 - 257	15416	Leu-75 to Leu-81.	S0114: 2	
HSAZF47	719615	5665	306 - 425	15417		S0114: 1 and H0445: 1.	
HSAZG04	927161	5666	1 - 180	15418	Glu-1 to His-6, Ser-35 to Ala-41, His-52 to Cys-59.	S0114: 2	
HSAZG53	727729	5667	24 - 131	15419		S0114: 1 and H0318: 1.	
HSAZH64	730784	5668	165 - 347	15420	Arg-1 to Gln-8.	S0114: 1 and H0402: 1.	
HSAZI04	927167	5669	27 - 191	15421		S0114: 1 and H0521: 1.	
HSAZK83	781717	5670	1 - 117	15422		S0114: 2	
HSAZN07	847802	5671	158 - 370	15423		S0114: 1 and H0421: 1.	
HSAZP34	796044	5672	214 - 357	15424	Gly-20 to Gln-31.	S0114: 2	
HSAZQ04	927174	5673	2 - 187	15425	Phe-42 to Gln-49.	H0589: 2 and S0114: 1.	

HSMBBA04	927420	5674	43 - 180	15426	Asp-1 to Gln-7, Arg-25 to Ile-32, Gln-37 to Gly-46.	S0298: 1 and S0052: 1.		
HSMBBA53	727597	5675	130 - 195	15427		S0298: 2		
HSMBB53	964887	5676	2 - 100	15428		S0298: 1 and H0402: 1.		
HSMBD29	690390	5677	412 - 215	15429		S0298: 1, H0581: 1 and H0542: 1.		
HSQFR23	676362	5678	94 - 291	15430	Asn-28 to Ser-35, Arg-58 to Pro-66.	H0641: 2, S0002: 2, L0766: 2, L0438: 2, L0439: 2, H0657: 1, H0638: 1, H0637: 1, L0763: 1, L0768: 1, L0794: 1, L0655: 1, H0521: 1, H0522: 1, L0779: 1, L0777: 1 and S0026: 1.		
HSYAD19	668590	5679	52 - 132	15431		H0551: 2	8q11	600899
HSYBC05	920174	5680	215 - 385	15432	Asp-11 to His-16, Asn-41 to Ser-47.	H0341: 1, H0402: 1, S0005: 1, H0551: 1 and L0766: 1.		
HSYBF51	883699	5681	2 - 334	15433	Leu-12 to Gly-31.	H0551: 2		
HSYBL15	660053	5682	2 - 286	15434	Pro-26 to Gly-32.	AR061: 1, AR089: 0 S0212: 1, H0551: 1 and L0366: 1.	6q23	107470, 107470, 107470, 121014, 142470, 156225, 164200, 164200, 207800, 601316, 601410, 601757, 602067
HSYBL77	727842	5683	142 - 327	15435	Ser-7 to Asp-12, Arg-30 to Ser-41.	H0341: 1 and H0551: 1.		
HSYCX75	870939	5684	60 - 191	15436		H0551: 2		
HSYDF85	783730	5685	1 - 399	15437	Ser-79 to Gly-86, Pro-93 to Asp-99.	H0069: 1 and H0551: 1.		
HSYDP04	970789	5686	23 - 403	15438	His-3 to Ala-10, Gly-22 to Glu-29, Pro-53 to Pro-59, Leu-106 to Glu-111, Glu-119 to Asn-125.	H0457: 4, H0522: 2 and H0551: 1.		
HTISC71	792728	5687	96 - 326	15439		H0218: 3		

HT2AB63	518444	5688	66 - 263	15440	Gln-59 to Lys-66.	H0139: 2		
HT2SA18	522773	5689	201 - 443	15441	Ser-34 to Ala-40, Asn-61 to Ala-70.	H0220: 2, L0748: 1 and L0749: 1.		
HT2SF05	932853	5690	231 - 467	15442		H0220: 1 and S0053: 1.		
HT2SF45	522759	5691	120 - 320	15443		H0220: 2		
HT2SG56	870913	5692	87 - 320	15444		H0556: 1 and H0220: 1.		
HT2SG66	522753	5693	171 - 305	15445	Lys-12 to Ile-25.	H0220: 2		
HT3AG28	973645	5694	57 - 209	15446	Tyr-1 to Glu-19.	H0140: 3		
HT3AH13	527913	5695	17 - 175	15447	Arg-2 to His-13.	H0140: 2 and L0369: 1.		
HT3BA84	509190	5696	266 - 412	15448		H0159: 2, H0222: 1 and H0422: 1.		
HT3BB93	530750	5697	165 - 266	15449		H0222: 1 and H0159: 1.		
HT3BC30	691009	5698	88 - 201	15450	Arg-14 to Lys-30.	H0223: 1 and H0159: 1.		
HT3BF34	534887	5699	67 - 189	15451		H0222: 1, H0159: 1, H0179: 1 and S0053: 1.		
HT3BG05	932557	5700	3 - 365	15452	Leu-18 to Gln-25.	H0222: 1 and H0159: 1.		
HT3BG34	527779	5701	80 - 166	15453		H0159: 2		
HT3SA07	954360	5702	19 - 210	15454	Val-3 to Leu-9, Lys-14 to Thr-19, Trp-27 to Ser-32.	H0222: 1 and H0264: 1.		
HT3SB56	958400	5703	601 - 912	15455	Phe-27 to Arg-34.	H0222: 1 and H0159: 1.	16p13.13-p13.12	186580, 278760, 601313
HT3SF46	522600	5704	181 - 312	15456		H0222: 1 and H0159: 1.		
HT3SF93	791423	5705	207 - 527	15457	Gly-7 to Met-20, Pro-28 to Leu-33, Met-52 to Cys-58, Arg-92 to Ser-97.	H0222: 1, S0428: 1 and L0601: 1.		
HT3SG30	522532	5706	127 - 258	15458		H0222: 3, H0576: 1 and L0779: 1.		
HT4CF32	887174	5707	133 - 846	15459	Gly-1 to Val-16, Thr-114 to Arg-119.	AR050: 48, AR054: 34, AR051: 20 H0141: 5, H0585: 5, L0805: 2, H0638: 1, H0606: 1, L0369: 1, L0761: 1, L0800: 1, L0771: 1, L0768: 1, L0766: 1 and L0806: 1.		

HT4CL83	974117	5708	178 - 489	15460	Val-18 to Thr-23, Val-42 to Trp-49, Glu-65 to Tyr-70.	H0585: 6 and H0141: 2.		
HT4CM20	805558	5709	195 - 449	15461		H0585: 8 and H0141: 3.		
HT4FN75	686279	5710	2 - 127	15462		H0585: 2		
HT4FS23	952837	5711	2 - 178	15463		H0585: 2		
HT4FV06	935056	5712	1 - 87	15464	Leu-2 to Pro-8.	H0585: 1 and H0576: 1.		
HT4GF30	870887	5713	6 - 245	15465	Thr-14 to Arg-23, Gly-37 to Phe-50.	H0585: 17, H0141: 7, L0804: 4, H0641: 2, L0769: 2, L0800: 2, L0803: 2, L0809: 2, L0731: 2, L0763: 1, L0761: 1, L0773: 1, L0789: 1, L0747: 1, L0777: 1 and H0422: 1.		
HT4GI85	909971	5714	38 - 526	15466	Gly-115 to Arg-120.	H0585: 9		
HT4SB45	522502	5715	118 - 399	15467		H0224: 3		
HT4SE86	531561	5716	50 - 235	15468		H0224: 1, H0160: 1 and H0225: 1.		
HT4TB12	870955	5717	2 - 277	15469		H0225: 2, H0224: 1 and H0160: 1.		
HT5AD70	960050	5718	3 - 167	15470		H0167: 4		
HT5AH76	921539	5719	2 - 133	15471		H0167: 3		
HT5AI96	728624	5720	2 - 88	15472		H0167: 2		
HT5EA69	952359	5721	12 - 488	15473	Arg-9 to Trp-20, Met-27 to Gly-33, Gln-52 to Ile-57, Gln-60 to Glu-69.	H0584: 10		
HT5EU04	531205	5722	268 - 435	15474	Phe-1 to Glu-11, Gly-17 to Arg-41.	H0584: 9, H0167: 2, H0271: 1 and H0416: 1.		
HT5EU59	739092	5723	1 - 354	15475	Arg-3 to Ala-10, Pro-21 to Thr-36, Gly-38 to Gly-51, Arg-58 to Gly-64.	H0584: 2		
HT5FD31	697721	5724	3 - 335	15476	Ala-32 to Glu-38, Gln-74 to Gly-85.	H0584: 4		
HTAAA68	733636	5725	131 - 244	15477	Gln-23 to Asn-29.	H0069: 2		



HTAAA74	960479	5726	1 - 315	15478	Glu-12 to Thr-22, Arg-28 to Ala-33, Leu-45 to Thr-50.	H0069: 2 and L0592: 1.	
HTAAC05	932913	5727	90 - 329	15479	Gly-1 to His-6.	H0069: 5	
HTAAG63	578537	5728	24 - 182	15480		H0402: 2, L0529: 2 and H0069: 1.	
HTAAP36	629270	5729	25 - 135	15481	Glu-13 to Glu-20.	H0069: 2	22
HTAAP96	518454	5730	24 - 152	15482	Cys-16 to Arg-25, Arg-33 to Leu-41.	H0069: 3 and H0635: 1.	
HTAAQ82	952304	5731	236 - 415	15483		H0069: 3 and H0556: 1.	
HTAAU76	508527	5732	2 - 274	15484	Arg-10 to Arg-17.	H0069: 3	
HTAAU78	870884	5733	76 - 129	15485		H0069: 3	
HTAAW11	961231	5734	57 - 248	15486		H0069: 5	
HTAAW46	719422	5735	3 - 122	15487	Met-1 to Thr-6, Pro-21 to Ser-27.	H0069: 2	
HTAAW81	535295	5736	2 - 166	15488	Gln-11 to Ser-16.	H0069: 5	
HTAAY89	575304	5737	39 - 146	15489		H0069: 3	
HTABE51	960936	5738	103 - 288	15490	Glu-2 to Lys-26.	H0069: 2	
HTABE93	509675	5739	95 - 259	15491		H0069: 3	
HTABF52	535399	5740	113 - 316	15492	Lys-22 to Pro-28.	H0069: 4	
HTABF72	508952	5741	126 - 329	15493	Arg-13 to Arg-18.	H0069: 2	
HTABG03	960931	5742	2 - 220	15494	Arg-1 to Gln-7.	H0069: 9	
HTABG44	508366	5743	142 - 14	15495	Ala-1 to Arg-9.	H0069: 2	
HTABG83	518355	5744	124 - 177	15496		H0069: 2 and H0318: 1.	
HTABG87	940153	5745	75 - 344	15497	Ser-9 to Ser-14, Lys-24 to Ser-30, Cys-34 to Ile-39, Lys-46 to Leu-60.	H0069: 1 and H0581: 1.	
HTABJ93	508441	5746	3 - 263	15498		H0069: 3	
HTABK73	835945	5747	3 - 251	15499	Pro-60 to Lys-68.	H0069: 1, S0144: 1 and S0142: 1.	
HTABN17	954400	5748	3 - 89	15500	Gln-16 to Ile-21.	H0069: 8	
HTACL04	925571	5749	96 - 263	15501	Pro-7 to Thr-27.	H0069: 1 and H0635: 1.	
HTACN31	974314	5750	280 - 408	15502		H0069: 1 and H0635: 1.	
HTACN96	975073	5751	394 - 582	15503		H0069: 3 and H0635: 2.	

HTACP19	537439	5752	3 - 101	15504	Thr-1 to Met-32.	H0069: 2 and H0543: 1.	12q24.3-qter
HTACP52	968997	5753	200 - 433	15505	Glu-67 to Arg-72.	L0766: 2, H0069: 1 and H0625: 1.	
HTACR92	918250	5754	2 - 271	15506	Gly-10 to Gly-15, Tyr-22 to Lys-31, Glu-70 to Phe-76.	H0069: 1 and H0635: 1.	
HTACS45	537433	5755	57 - 122	15507	Pro-15 to Gly-22.	H0069: 2	
HTACS46	537435	5756	2 - 181	15508		H0069: 2	
HTACT29	537377	5757	119 - 271	15509		S0052: 2 and H0069: 1.	
HTACU21	504612	5758	63 - 143	15510		H0069: 2	
HTACU80	777608	5759	31 - 207	15511		H0069: 1 and S0428: 1.	
	870869	9596	161 - 316	19348	Cys-32 to Asn-38.		
HTACW17	961560	5760	3 - 287	15512	Arg-22 to Thr-28, Pro-41 to Gln-48.	H0069: 1 and H0063: 1.	
HTACY32	531492	5761	290 - 445	15513	Cys-14 to Glu-30.	H0069: 1 and H0264: 1.	
HTACY49	557836	5762	62 - 199	15514	Leu-23 to Ser-29.	H0069: 2	
HTADA22	507146	5763	1 - 297	15515		H0069: 2	
HTADC11	967577	5764	3 - 170	15516	Gln-1 to Pro-6, Ser-15 to Glu-30, Ile-37 to Tyr-42.	H0069: 1, H0635: 1 and L0780: 1.	
HTADH05	932470	5765	44 - 130	15517	Arg-1 to Glu-7.	H0069: 2	
HTADH61	955245	5766	52 - 189	15518		H0069: 2	
HTADI11	964944	5767	2 - 238	15519	Pro-7 to Lys-12, Pro-27 to Gly-39.	H0069: 2	
HTADI93	870820	5768	2 - 172	15520	Ser-45 to Ser-54.	H0069: 1 and H0635: 1.	
HTADI25	537427	5769	58 - 264	15521	Thr-56 to Thr-63.	H0069: 2	
HTADI36	773764	5770	29 - 391	15522	Ser-9 to Ala-16, Lys-19 to Gln-31, Pro-63 to Trp-68, Pro-90 to Gly-98.	H0069: 2	
HTADK40	537423	5771	306 - 461	15523		H0069: 2	
HTADM61	550342	5772	190 - 432	15524	Phe-8 to Cys-15.	H0069: 2 and H0556: 1.	
HTADQ83	734996	5773	56 - 241	15525	Ser-40 to Phe-45, Pro-51 to Arg-58.	H0069: 1 and S0142: 1.	
HTADQ93	537418	5774	1 - 69	15526		H0069: 2	

HTADR41	934435	5775	73 - 225	15527			H0069: 2		
HTADW69	537428	5776	3 - 101	15528			H0069: 2		
HTAED78	761591	5777	188 - 319	15529			H0069: 2		
HTAEF32	927101	5778	217 - 372	15530		Glu-1 to Ile-6.	H0069: 2		
HTAEH74	974303	5779	234 - 377	15531			H0635: 2 and H0069: 1.		
HTAEJ77	930978	5780	3 - 428	15532		His-1 to Arg-20.	H0069: 2 and H0635: 1.		
HTAEK78	773763	5781	303 - 494	15533		Glu-1 to Pro-7.	H0069: 2		
HTAEL90	958220	5782	1 - 147	15534			H0069: 1, H0457: 1 and S0426: 1.		
HTAE084	537374	5783	3 - 104	15535			H0069: 2		
HTAER18	537421	5784	71 - 205	15536			H0069: 2		
HTAES82	537373	5785	126 - 254	15537		Asp-10 to Asp-16, Gln-29 to Ala-35.	H0069: 3		
HTAET86	969532	5786	2 - 298	15538			H0069: 1 and H0635: 1.		
HTAEU76	767963	5787	311 - 568	15539		Ser-1 to Glu-10, Ser-53 to Phe-59.	H0069: 1 and H0264: 1.		
HTAEV65	838803	5788	169 - 402	15540			H0069: 1, H0635: 1 and L0523: 1.		
HTAEW87	971526	5789	243 - 329	15541		Ile-1 to Gln-7.	H0069: 4		
HTAEW95	780986	5790	28 - 462	15542			H0584: 2, H0265: 1 and H0069: 1.		
HTAEX66	881092	5791	209 - 487	15543		Arg-65 to Asp-70.	H0069: 5		
HTAFA06	934570	5792	107 - 322	15544		Ala-29 to Tyr-45, Gly-53 to Ala-60.	H0069: 2		
HTAFA66	868433	5793	167 - 454	15545		Pro-38 to Trp-51, Asp-53 to Gly-59, Thr-70 to Trp-78.	H0069: 1 and H0581: 1.		
HTAFC37	973085	5794	359 - 93	15546		Gln-1 to Gly-7, Pro-16 to Asp-28, Arg-66 to Asp-73.	H0069: 2, L0794: 1, L0803: 1 and L0758: 1.		
HTAFC76	767976	5795	46 - 303	15547		Asp-68 to Gly-80.	H0069: 2		
HTAFD63	744409	5796	68 - 21	15548			H0069: 2		
HTAFE69	944409	5797	25 - 366	15549		Lys-14 to Glu-32.	AR061: 7, AR089: 5 H0069: 3, L0794: 1, L0803: 1 and L0758: 1.		

HTAFE90	787604	5798	134 - 232	15550			H0069: 1 and H0090: 1.		
HTAFF11	933028	5799	99 - 338	15551	Trp-36 to Tyr-58, Ser-74 to Asp-80.		H0069: 2		
HTAFF76	767968	5800	226 - 393	15552			H0069: 2		
HTAFG52	974338	5801	23 - 283	15553			H0069: 1, H0635: 1 and S0216: 1.		
HTAFG58	870854	5802	3 - 239	15554	Gln-2 to Leu-10.		H0069: 1 and H0635: 1.		
HTAGA71	870853	5803	137 - 304	15555			H0069: 1 and H0635: 1.		
HTAGB89	974060	5804	258 - 371	15556			H0635: 2 and H0069: 1.		
HTAGC91	963125	5805	164 - 397	15557	Gln-17 to Gly-23.		H0635: 4		
HTAGI29	925699	5806	155 - 334	15558			H0556: 1, H0635: 1 and S0474: 1.		
HTAGI53	936117	5807	1 - 198	15559	Gly-7 to Gly-16.		H0271: 2, H0255: 1 and H0635: 1.		
HTAGL61	963182	5808	1 - 363	15560	Ala-1 to Gln-11, Lys-30 to Lys-40, Arg-52 to His-73, Asp-109 to Leu-114.		H0635: 3		
HTAGN04	926501	5809	294 - 473	15561	Lys-46 to Arg-52.		H0635: 2 and L0748: 1.		
HTAGV46	847777	5810	2 - 238	15562	Asp-54 to Ser-63, Ser-65 to Gln-79.		H0635: 2 and S0116: 1.		
HTAGV49	836078	5811	130 - 435	15563	Lys-13 to Leu-20, Ser-39 to Arg-46.		H0635: 2 and L0766: 1.		
HTAGZ11	965867	5812	104 - 280	15564	Cys-37 to His-45.		S0114: 1 and H0635: 1.		
HTAHL17	860919	5813	2 - 292	15565	Pro-7 to Gly-15, Pro-37 to Gly-42.		H0635: 1 and H0271: 1.		
HTAHL49	934013	5814	243 - 494	15566	Asn-52 to Gln-59.		H0635: 2 and H0069: 1.		
HTAHL12	920332	5815	249 - 458	15567			H0635: 1 and H0422: 1.		
HTAHL28	974030	5816	3 - 359	15568	Val-2 to Pro-7, Ala-17 to Gly-24, Arg-26 to Leu-32, Cys-36 to Arg-49, Arg-56 to Gly-67, Asn-69 to Trp-76, Gly-79 to Pro-89, Tyr-108 to Ile-113.		H0635: 3		

HTAHL45	908949	5817	139 - 663	15569	Leu-14 to Lys-20, Glu-28 to Ala-67, Pro-81 to Gln-88, Leu-128 to Lys-137.	AR061: 314, AR089: 160 H0635: 2 and L0439: 2.		
HTAHL76	974300	5818	2 - 202	15570		H0635: 2 and H0556: 1.		
HTAHN29	923115	5819	317 - 580	15571	Gly-1 to Cys-17, His-59 to Pro-69, Arg-82 to Ile-88.	H0556: 1, H0635: 1 and H0543: 1.		
HTAHQ22	870831	5820	5 - 289	15572	Leu-8 to Ser-16, Ser-25 to Glu-32, Gly-71 to Lys-79.	H0635: 2		
HTAHQ94	839505	5821	248 - 520	15573		H0635: 2		
HTAHR03	922772	5822	267 - 380	15574		H0069: 1 and H0635: 1.		
HTAHR06	934062	5823	203 - 358	15575	Ser-7 to Gln-18, Pro-44 to Asp-51.	H0457: 2, H0635: 1 and H0445: 1.		
HTAHS10	963183	5824	9 - 218	15576	Asn-6 to His-12.	H0635: 3		
HTAHS21	960795	5825	3 - 380	15577	Cys-12 to Pro-17, Arg-45 to Cys-54, Glu-58 to Ile-67, Val-100 to Gln-105.	H0069: 1 and H0635: 1.		
HTAHV04	926747	5826	3 - 449	15578		H0635: 2, L0746: 2, L0770: 1, L0769: 1, L0659: 1 and L0745: 1.		
HTAIB11	965835	5827	2 - 118	15579		H0635: 2		
HTAIC05	930951	5828	622 - 819	15580	Asn-10 to Ser-16.	L0749: 5, H0635: 1, S0426: 1 and L0748: 1.		
HTAID04	926541	5829	200 - 403	15581	Glu-32 to Ser-38.	H0069: 2 and H0635: 1.		
HTAIF70	974062	5830	2 - 214	15582		H0069: 2, H0635: 1 and H0179: 1.		
HTAIF78	870785	5831	22 - 363	15583	Leu-1 to Gly-8, Ser-74 to Gly-84, Pro-97 to Gly-108.	H0556: 3, H0069: 1, H0635: 1, H0318: 1, S0344: 1 and L0766: 1.		
HTAIK75	870815	5832	282 - 470	15584	Pro-8 to Val-15.	H0635: 1 and H0542: 1.		
HTAIQ39	921729	5833	19 - 249	15585		H0069: 1 and H0635: 1.		
HTAIQ75	870804	5834	3 - 281	15586	Arg-9 to Gly-15, Ser-57 to Gln-68.	H0635: 2		

HTAIR54	870814	5835	106 - 327	15587	Thr-33 to Phe-38.	L0600: 2, H0635: 1 and H0264: 1.	9q11-q22	229600, 264300, 600542, 602014, 602088
HTAIU80	968234	5836	23 - 205	15588	Ser-30 to Asp-36.	H0635: 1 and H0271: 1.		
HTAIV79	870874	5837	63 - 368	15589	Pro-4 to Leu-14, Ser-43 to Pro-49.	H0069: 1 and H0635: 1.		
HTAJG31	926731	5838	282 - 452	15590	His-18 to Cys-24.	H0635: 2		
HTAJG65	975260	5839	152 - 355	15591	His-59 to Leu-66.	H0635: 3 and H0069: 1.		
HTAJI01	914899	5840	160 - 2	15592		H0635: 2		
HTAJN08	958057	5841	2 - 160	15593		H0635: 2		
HTAJR80	975309	5842	183 - 380	15594		H0635: 3		
HTBAA95	715044	5843	2 - 478	15595	His-1 to Glu-14, Thr-22 to Ser-28, Pro-36 to Val-44, Gln-80 to Asp-91.	H0075: 1 and H0521: 1.		
HTDAA07	870742	5844	3 - 209	15596	Asp-1 to Gly-9.	H0486: 1 and H0477: 1.		
HTDAC37	575842	5845	3 - 227	15597	Ser-62 to Glu-75.	H0477: 2 and L0041: 1.		
HTDAC77	772242	5846	51 - 233	15598		H0556: 1 and H0477: 1.		
HTDAE25	714359	5847	506 - 694	15599	Leu-19 to His-29.	H0635: 1 and H0477: 1.		
HTDAE43	889311	5848	2 - 169	15600		H0457: 1 and H0477: 1.		
	971582	9597	390 - 638	19349	Pro-27 to Gly-34.			
HTDAF65	927842	5849	415 - 672	15601	Gly-4 to Tyr-10.	H0581: 2, H0477: 1, H0272: 1 and L0766: 1.		
HTDAG18	975317	5850	236 - 520	15602	Val-7 to Gly-19, Thr-51 to Thr-56, Ser-62 to Gly-72.	H0069: 2, H0635: 1 and H0477: 1.		
HTDAI42	576013	5851	46 - 180	15603	Asn-35 to Ser-40.	H0477: 1 and H0422: 1.		
HTGAL23	574100	5852	96 - 308	15604		S0134: 2 and L0594: 1.		
HTGAM06	935798	5853	2 - 298	15605	Ile-12 to Thr-17.	S0134: 2		
HTGAM26	682040	5854	2 - 175	15606	Ile-1 to Phe-13, Leu-16 to Arg-33, Ser-45 to Ser-50.	S0134: 1 and H0341: 1.		
HTGAM42	578797	5855	31 - 126	15607		S0134: 2		
HTGAN20	578804	5856	1 - 327	15608	Gly-1 to Pro-13, Lys-20 to Val-33, Pro-74 to Glu-84.	S0134: 2		

HTGAO17	876650	5857	3 - 569	15609	Arg-41 to Asn-46, Pro-96 to Lys-102, Ala-122 to Glu-127.	S0134: 1, T0042: 1 and H0543: 1.		
HTGAR40	664270	5858	67 - 216	15610	Glu-17 to Ile-29.	S0134: 2		
HTGAR72	574681	5859	1 - 291	15611	Gly-1 to Cys-8, Glu-11 to Gly-19.	S0134: 1 and H0271: 1.		
HTGAS32	835534	5860	258 - 458	15612	Gly-15 to Glu-20, Gly-24 to Cys-30.	S0134: 1, L0623: 1, H0087: 1, H0445: 1 and L0599: 1.		
HTGAT93	791508	5861	1 - 153	15613		S0134: 1 and H0436: 1.		
HTGAV59	870798	5862	241 - 420	15614	Pro-11 to Thr-19.	S0134: 3		
HTGAW37	752829	5863	2 - 172	15615		S0134: 1 and H0318: 1.		
HTGAW75	572404	5864	201 - 422	15616	Thr-1 to Ser-8, Gly-13 to Lys-19.	S0134: 1 and H0179: 1.		
HTGAX19	782877	5865	46 - 294	15617	Ser-35 to Thr-42.	S0134: 1, H0581: 1 and H0576: 1.		
HTGAY36	923716	5866	122 - 319	15618		S0134: 1 and H0576: 1.		
HTGAY79	775299	5867	2 - 208	15619		S0134: 1 and H0522: 1.		
HTGAZ62	870414	5868	345 - 157	15620		S0134: 2		
HTGAZ79	584717	5869	13 - 183	15621		S0134: 1, T0041: 1 and L0748: 1.		
HTGBE33	685648	5870	24 - 332	15622	Ala-22 to Phe-28.	S0114: 1 and S0134: 1.		
HTGBE76	954599	5871	287 - 613	15623	Val-95 to Arg-101.	H0341: 2, S0134: 1, L0759: 1 and H0543: 1.		
HTGBF16	572499	5872	184 - 420	15624	Ser-33 to Leu-45.	L0748: 3, S0134: 1 and H0271: 1.		
HTGBF62	753962	5873	53 - 298	15625		S0134: 1 and S0002: 1.		
HTGBF90	786611	5874	2 - 217	15626		S0134: 1, H0581: 1 and H0543: 1.		
HTGBG55	966903	5875	3 - 164	15627	Pro-18 to Ala-33.	S0134: 1, L0779: 1 and H0543: 1.		
HTGBH18	579103	5876	102 - 260	15628	Glu-9 to Cys-15, His-45 to Arg-53.	S0134: 1 and S0116: 1.		
HTGBH55	735751	5877	83 - 595	15629		S0278: 2 and S0134: 1.		
HTGBI93	787110	5878	3 - 221	15630	Arg-37 to Leu-42.	S0134: 1 and H0305: 1.		
HTGBI55	579005	5879	181 - 357	15631		S0134: 1 and H0354: 1.	Xq28	300031, 300044, 300048, 300049,

									300049, 300055, 300100, 300100, 300104, 300126, 301201, 301590, 302060, 302060, 302060, 302060, 302960, 303700, 303800, 303900, 304800, 305900, 305900, 305900, 306700, 306995, 308310, 308840, 308840, 308840, 309200, 309548, 309620, 309900, 310300, 310400, 310460, 310460, 311300, 311510, 314300, 314400
HTGBK66	772325	5880	78 - 341	15632	Pro-8 to Trp-15.	S0134: 2			
HTGBL34	572643	5881	66 - 281	15633	Ala-29 to Arg-41.	S0134: 1 and H0090: 1.			
HTGBL72	576641	5882	35 - 238	15634		S0134: 1 and H0423: 1.			
HTGBN09	506500	5883	3 - 215	15635	Asn-32 to His-39.	S0134: 2			
HTGBN27	683557	5884	222 - 145	15636		S0134: 2 and S0002: 1.			
HTGBN57	578806	5885	1 - 270	15637		S0134: 2			
HTGBP65	870406	5886	54 - 239	15638	Glu-28 to Ser-33.	S0134: 2			
HTGBR20	669797	5887	144 - 311	15639	Lys-32 to Gln-37.	S0134: 1 and S0344: 1.			
HTGBR93	973978	5888	3 - 272	15640		S0134: 3			
HTGBS02	920445	5889	91 - 234	15641		S0134: 2			
HTGBY51	506502	5890	22 - 228	15642	Gln-54 to Glu-60.	S0134: 2			
HTGCD10	964884	5891	82 - 288	15643	Leu-27 to Ser-33, Gln-46 to Ala-53.	S0134: 1 and S0218: 1.			
HTGCD85	579028	5892	121 - 327	15644		S0134: 2			
HTGCF49	723090	5893	122 - 559	15645	His-1 to Gly-19, Ala-26 to Gly-31, Pro-48 to Ser-57,	S0134: 1 and H0444: 1.			



HTGCG89	894005	5894	3 - 155	15646	Ala-83 to Asn-117.	S0134: 1 and H0576: 1.	
HTGCH58	909849	5895	408 - 1103	15647	Asn-1 to Val-6. Arg-25 to Glu-32, Ser-73 to Lys-85, Asp-138 to Glu-145, Glu-164 to Asp-174, Leu-185 to Lys-194.	AR089: 2, AR061: 1 L0766: 2, L0776: 2, L0740: 2, S0134: 1, H0635: 1, L0370: 1, S0142: 1, L0792: 1, H0521: 1, H0522: 1, L0779: 1 and L0366: 1.	
HTGCI80	588166	5896	79 - 243	15648		S0134: 1, L0471: 1, L0753: 1 and H0543: 1.	
HTGCI54	571389	5897	88 - 276	15649	Thr-1 to Thr-6.	S0134: 2 and S0114: 1.	
HTGCL06	935789	5898	204 - 338	15650		S0134: 1 and H0580: 1.	
HTGCL40	578774	5899	100 - 219	15651		S0134: 2	
HTGCL94	747573	5900	1 - 183	15652		AR054: 10, AR050: 7, AR051: 3 S0134: 2	
HTGCM13	913673	5901	1 - 132	15653		S0134: 2	
HTGCM90	678122	5902	80 - 358	15654	Glu-71 to Val-77.	S0114: 1 and S0134: 1.	
HTGCM92	578768	5903	1 - 138	15655	Ser-13 to Arg-23.	S0134: 2	
HTGCP76	770143	5904	10 - 144	15656	Gln-1 to Trp-25.	S0134: 1 and H0421: 1.	
HTGCQ15	880293	5905	128 - 391	15657		S0134: 1, S0218: 1, S0002: 1 and L0748: 1.	
HTGCQ19	974433	5906	70 - 279	15658	Pro-41 to Cys-46.	S0134: 2 and H0543: 1.	
HTGCS20	933260	5907	2 - 205	15659		S0134: 1 and H0486: 1.	
HTGCS81	921650	5908	15 - 167	15660		S0134: 2	
HTGCT54	960912	5909	55 - 204	15661	Asn-15 to Trp-34.	S0134: 1 and H0543: 1.	
HTGCT57	496297	5910	49 - 213	15662		S0134: 1 and S0002: 1.	
HTGCU25	679403	5911	124 - 279	15663	Arg-1 to Phe-7.	S0134: 1 and S0002: 1.	
HTGCU28	713353	5912	43 - 165	15664	Gly-1 to Lys-15.	S0134: 1 and S0218: 1.	
HTGDG28	735002	5913	99 - 266	15665	Asn-20 to Gly-28.	S0134: 2 and S0114: 1.	
HTGDG63	579127	5914	113 - 298	15666	Phe-11 to Glu-25, Lys-33 to Arg-51.	S0134: 2 and S0114: 1.	
HTGDG70	757191	5915	75 - 230	15667	Gly-2 to Glu-7.	S0134: 2	
HTGDG75	769010	5916	9 - 116	15668		S0134: 1 and H0444: 1.	
HTGDM56	733405	5917	240 - 365	15669	Gly-12 to Val-29.	S0134: 1 and S0218: 1.	

HTGDM65	967158	5918	2 - 355	15670	Gln-20 to Ala-26, Thr-58 to Lys-65, Gly-83 to Glu-89.	S0114: 2, S0134: 1 and H0255: 1.		
HTGDS63	958651	5919	161 - 373	15671	Pro-10 to Arg-15.	S0134: 1 and S0218: 1.		
HTGDS88	659766	5920	71 - 208	15672	Ile-20 to Thr-25.	S0134: 1 and S0218: 1.		
HTGDT91	974962	5921	306 - 638	15673	Pro-12 to Asn-20, Asp-43 to Arg-49.	AR089: 0, AR061: 0 S0134: 1 and H0069: 1.		
HTGDU57	712249	5922	270 - 536	15674	Gln-25 to Val-30.	H0543: 2 and S0134: 1.		
HTGDV50	708605	5923	336 - 464	15675		S0134: 1 and H0090: 1.		
HTGDW16	661477	5924	322 - 516	15676	Arg-1 to Lys-7.	S0134: 2 and L0599: 1.		
HTGDW40	710759	5925	50 - 220	15677		S0134: 3, H0556: 1 and S0216: 1.		
HTGDW96	967030	5926	208 - 1356	15678	Arg-157 to Asn-172, Val-179 to Leu-185, Arg-206 to Ile-215, Ser-232 to Thr-241, Glu-374 to Pro-379.	AR089: 10, AR061: 8 S0134: 1, S0278: 1, S0144: 1, S0344: 1 and H0423: 1.		
HTGDX29	883517	5927	169 - 462	15679	His-20 to Cys-27, Ala-40 to Ile-54.	S0134: 1 and S0426: 1.		
HTGEB95	725254	5928	137 - 397	15680	Glu-8 to Gln-13, Glu-43 to Ser-53.	L0776: 6, H0591: 2, S0218: 1, L0805: 1, H0521: 1 and H0543: 1.		
HTGED32	698776	5929	612 - 773	15681	Leu-13 to Pro-29.	S0218: 1 and H0306: 1.		
HTGED54	729223	5930	1 - 462	15682		S0114: 1 and S0218: 1.		
HTGED59	711417	5931	3 - 182	15683		S0218: 1 and H0306: 1.		
HTGED69	754761	5932	35 - 169	15684		S0134: 1 and S0218: 1.		
HTGEF77	771825	5933	337 - 498	15685	Leu-13 to Phe-20, Leu-28 to Gly-46.	H0556: 1 and S0218: 1.		
HTGEF78	769764	5934	1 - 147	15686		S0218: 2		
HTGEG76	769765	5935	3 - 212	15687		S0218: 1 and H0521: 1.		
HTGEL46	685425	5936	323 - 457	15688		AR089: 0, AR061: 0 S0218: 1, H0264: 1 and S0053: 1.		
HTGEL54	728905	5937	166 - 384	15689	Thr-41 to Asp-58.	S0218: 2		
HTGEL55	684871	5938	45 - 302	15690	His-25 to Ala-37.	S0114: 1 and S0218: 1.		
HTGEO46	674409	5939	268 - 417	15691	Pro-9 to Asp-21.	S0218: 1 and H0436: 1.		

HTGEO86	703733	5940	57 - 272	15692	Arg-1 to Ser-11, Asp-21 to Leu-29.	S0218: 2	
HTGEO94	723097	5941	422 - 622	15693		S0218: 1 and H0063: 1.	
HTGEP20	799683	5942	13 - 276	15694	Ser-3 to Ser-10, Pro-37 to Thr-44, Phe-67 to Gln-74.	H0264: 2 and S0218: 1.	
HTGEP92	789681	5943	44 - 352	15695		S0218: 1 and S0428: 1.	
HTGEQ11	967047	5944	3 - 311	15696	Arg-1 to Gly-8, Pro-26 to Gly-34.	AR089: 1, AR061: 1 S0218: 2	
HTGEQ34	703443	5945	27 - 161	15697	Lys-16 to Asn-23.	S0218: 2	
HTGEQ40	711181	5946	1 - 69	15698		S0218: 2	
HTGEQ61	741828	5947	39 - 218	15699	Lys-28 to Asn-35.	S0218: 1, H0444: 1 and H0422: 1.	
HTGEQ68	753031	5948	178 - 330	15700	Val-23 to Pro-31.	S0218: 2	
HTGER72	683469	5949	96 - 215	15701		S0218: 1 and S0053: 1.	
HTGET46	719048	5950	1 - 270	15702	Gly-1 to Cys-6, Leu-18 to Lys-26, Glu-33 to Arg-43, Ile-63 to Ile-82.	S0218: 2 and H0580: 1.	
HTGET82	778928	5951	158 - 310	15703		S0218: 1 and H0521: 1.	
HTGEU06	935470	5952	3 - 128	15704		S0114: 1 and S0218: 1.	
HTGFC20	668924	5953	2 - 232	15705	Gln-8 to Asn-17, Asp-24 to Gln-30, Arg-41 to Cys-48, Ala-71 to Phe-77.	S0218: 1 and H0255: 1.	
HTGFC70	757193	5954	206 - 364	15706		S0218: 2	
HTGFK43	669222	5955	3 - 323	15707	Asp-5 to Thr-13.	S0218: 2 and L0758: 1.	
HTGFN46	974106	5956	313 - 501	15708	Leu-1 to Cys-7.	S0218: 4	
HTGFO51	866957	5957	2 - 166	15709	Ser-1 to Cys-8.	S0218: 2 and S0114: 1.	
HTGFO75	767032	5958	53 - 280	15710	His-1 to Lys-6, Val-45 to Tyr-54.	H0265: 1 and S0218: 1.	
HTGFP07	952555	5959	147 - 341	15711	Val-9 to Val-15, Trp-44 to Arg-54.	S0218: 2, L0369: 1 and L0376: 1.	
HTGFP49	722626	5960	90 - 239	15712	Met-27 to Ser-33.	S0218: 2	
HTGFP59	738974	5961	31 - 135	15713	Tyr-10 to Gly-17.	S0218: 2	
HTGFP62	742908	5962	32 - 223	15714		S0218: 2	

HTGFR80	810302	5963	27 - 257	15715	Leu-70 to Ser-76.	S0134: 1 and S0218: 1.	
HTGFW29	690276	5964	1 - 249	15716	Gly-20 to Pro-27.	S0218: 1 and H0264: 1.	
HTGFW63	744678	5965	167 - 556	15717		L0747: 2, S0218: 1 and H0423: 1.	
HTGFX16	656777	5966	3 - 329	15718	Pro-33 to Ala-46, Asn-54 to Val-69, Pro-73 to Ser-78, Glu-93 to Pro-101.	S0218: 1 and H0581: 1.	
HTGFX82	779055	5967	75 - 278	15719	Asn-34 to Lys-40.	S0218: 2	
HTGFZ03	923443	5968	3 - 275	15720		AR089: 1, AR061: 1 S0218: 1 and H0485: 1.	
HTGFZ35	707730	5969	13 - 285	15721	Ser-60 to Leu-66.	S0218: 2	
HTGFZ58	735683	5970	59 - 190	15722		H0265: 1 and S0218: 1.	
HTGGL08	958583	5971	2 - 232	15723		S0218: 2	
HTGGL11	966328	5972	3 - 158	15724		S0218: 2	
HTGGL23	974590	5973	3 - 449	15725		S0218: 2	
HTGGL32	698714	5974	114 - 266	15726	Asp-1 to Ser-7, Lys-23 to Ile-28.	S0218: 2	
HTGGL43	714932	5975	36 - 218	15727	Leu-11 to Gln-16.	S0218: 2	
HTGGL79	774657	5976	2 - 103	15728	Thr-1 to Asn-10.	S0218: 2	
HTGGM20	669083	5977	7 - 129	15729	Arg-20 to Gly-26.	S0218: 1, S0212: 1, H0318: 1 and L0648: 1.	
HTGGN13	869239	5978	2 - 235	15730	Pro-10 to Ala-16.	S0218: 2 and H0556: 1.	
HTGGN92	927051	5979	3 - 197	15731		H0556: 1 and S0218: 1.	
HTHAA47	503638	5980	59 - 313	15732		H0222: 1 and H0062: 1.	
HTHBA07	954426	5981	27 - 203	15733		H0063: 2 and L0657: 1.	
	954427	9598	265 - 62	19350			
HTHBA18	502818	5982	3 - 128	15734		H0063: 2	
HTHBA68	915256	5983	3 - 392	15735		H0556: 1 and H0063: 1.	
HTHBC31	578568	5984	259 - 468	15736	Tyr-10 to Thr-16.	H0063: 1 and H0423: 1.	
HTHBC37	502935	5985	101 - 256	15737	Thr-6 to Leu-11.	H0063: 2	
HTHBG67	964562	5986	172 - 318	15738		H0220: 1, H0486: 1, H0063: 1 and H0625: 1.	
HTHBK65	526716	5987	1 - 132	15739		H0063: 2	
HTHBL65	921965	5988	1 - 366	15740	Glu-6 to Thr-17,	H0402: 1 and H0063: 1.	

HTHBO09	531115	5989	3 - 140	15741	Trp-23 to Arg-38.	S0114: 1 and H0063: 1.	
HTHBQ94	529671	5990	85 - 243	15742	Lys-11 to Glu-19.	H0063: 1 and H0264: 1.	
HTHBW75	557957	5991	2 - 133	15743	Pro-23 to Glu-35.	H0265: 1 and H0063: 1.	
HTHBW69	757741	5992	85 - 246	15744		H0318: 1 and H0063: 1.	
HTHBY64	712474	5993	320 - 493	15745	Ser-25 to Trp-30.	H0063: 2 and S0052: 2.	
HTHCA17	572407	5994	107 - 298	15746	Lys-19 to Leu-24.	H0063: 1 and H0264: 1.	
HTHCA75	712649	5995	208 - 477	15747		H0063: 1, H0272: 1 and L0749: 1.	
HTHCB68	660309	5996	3 - 359	15748	His-1 to Ser-7, Thr-33 to Gly-40.	H0063: 2	2q37.2
HTHCB83	578858	5997	109 - 321	15749	Cys-24 to Asn-33, Ala-53 to Ser-61.	H0063: 2	
HTHCC54	578877	5998	131 - 340	15750	His-8 to Asp-13, Arg-21 to Cys-29.	H0063: 2	
HTHCD17	664274	5999	62 - 331	15751	Asp-1 to Glu-6.	H0063: 2	
HTHCD91	973272	6000	407 - 535	15752		H0063: 3	
HTHCG11	967275	6001	117 - 245	15753	Tyr-29 to Ile-37.	H0063: 1 and H0521: 1.	
HTHCG86	578843	6002	1 - 165	15754	Gly-1 to Lys-12, Arg-19 to Ser-27.	H0063: 1 and H0543: 1.	
HTHCH22	630239	6003	293 - 547	15755		H0305: 1, H0589: 1, H0063: 1 and L0591: 1.	
HTHC142	578875	6004	82 - 291	15756		H0063: 2	
HTHCK38	579080	6005	3 - 275	15757		H0063: 1 and H0264: 1.	
HTHCK42	870355	6006	239 - 376	15758		H0063: 2	
HTHCK91	922873	6007	1 - 141	15759		H0063: 1 and S0426: 1.	
HTHCM08	959719	6008	20 - 268	15760	Lys-19 to Asn-27.	H0063: 2	
HTHCM19	842036	6009	199 - 375	15761	Gly-24 to Arg-29.	H0305: 3, H0581: 1 and H0063: 1.	
HTHCM39	578831	6010	147 - 350	15762	Asn-28 to Phe-43.	H0063: 2	
HTHCN38	578826	6011	183 - 371	15763	Pro-1 to Ser-9.	H0063: 2	
HTHCO28	705888	6012	1 - 231	15764		S0114: 1 and H0063: 1.	
HTHCO92	578757	6013	1 - 84	15765		L0794: 3, L0766: 2, H0581: 1, H0063: 1, L0792: 1, L0438: 1, L0439: 1 and	

HTHCQ31	926330	6014	391 - 624	15766	Leu-48 to Arg-60.	L0779: 1.		
HTHCQ63	959994	6015	224 - 361	15767		H0063: 1, L0766: 1, L0748: 1 and H0543: 1.		
HTHCR16	578722	6016	3 - 296	15768	His-1 to Pro-14, Arg-19 to Val-25, Cys-29 to His-42, Pro-62 to Arg-68, Cys-83 to Glu-92.	S0116: 2 and H0063: 1.		
HTHCT64	856477	6017	44 - 286	15769	Glu-1 to Ala-11.	H0063: 2		
HTHCU43	578849	6018	199 - 297	15770		H0063: 1 and H0445: 1.		
HTHCU85	578851	6019	159 - 314	15771	Lys-35 to Gly-42.	H0063: 2		
HTHCV21	671098	6020	2 - 211	15772	Asn-45 to Ser-50.	S0134: 1, L0717: 1, H0063: 1 and L0749: 1.	104770, 107670, 110700, 145001, 146760, 146790, 159440, 159440, 159440, 186780, 191030, 191315, 600923, 601412, 601652, 601863, 602491	
HTHCV22	419714	6021	2 - 205	15773	Gly-48 to Lys-55.	H0063: 2		
HTHCV59	937393	6022	45 - 374	15774	Leu-71 to Gly-78.	AR089: 17, AR061: 10 H0318: 1 and H0063: 1.		
HTHCW35	707732	6023	55 - 147	15775		H0580: 1 and H0063: 1.		
HTHCW45	578823	6024	3 - 152	15776	Ile-16 to His-22.	H0063: 2		
HTHCW83	578828	6025	73 - 252	15777	Leu-1 to Lys-8, Thr-20 to Asn-26.	H0063: 2		
HTHCX84	578874	6026	29 - 280	15778		H0063: 2		
HTHCY12	971165	6027	222 - 515	15779	Pro-22 to Pro-32, Arg-40 to Lys-50, Ala-69 to Gly-74.	L0766: 3, H0063: 2, L0769: 1, L0779: 1 and L0759: 1.		
HTHCZ96	578876	6028	94 - 306	15780	Arg-1 to Thr-7, Phe-27 to Ala-47.	H0063: 2		
HTHDD40	707065	6029*	2 - 367	15781	Arg-18 to Val-37.	H0063: 2		
HTHDE26	869483	6030	160 - 546	15782	Pro-52 to Leu-58.	H0063: 1, H0576: 1 and		

HTHDE44	791641	6031							H0445: 1.			
HTHDE91	967215	6032	286 - 363	15783					H0063: 1 and S0428: 1.			
HTHDF38	870339	6033	164 - 307	15784					H0063: 1 and H0423: 1.			
			1 - 186	15785				Asn-10 to Leu-15, Phe-35 to Leu-42, Ser-56 to Arg-62.	H0637: 1, H0063: 1, L0598: 1, H0542: 1 and H0423: 1.			
HTHDI24	574675	6034	84 - 242	15786				Val-4 to His-15.	H0250: 1, H0271: 1 and H0063: 1.			
HTHDI34	490926	6035	78 - 1	15787				Lys-1 to Thr-9, Leu-17 to Arg-26.	H0063: 5			
	973304	9599	332 - 457	19351								
HTHDI31	959718	6036	173 - 304	15788					H0063: 2			
HTHDI43	870335	6037	1 - 243	15789				Ser-40 to Asp-46, Val-48 to Lys-63.	H0063: 2			
HTHDM25	578878	6038	145 - 333	15790					H0063: 2 and L0519: 1.			
HTHDM65	579199	6039	145 - 252	15791					H0063: 2			
HTHDM69	578834	6040	213 - 383	15792				Asn-3 to Gly-11.	H0063: 2			
HTHDP70	578882	6041	134 - 268	15793					H0063: 2			
HTHDQ85	966858	6042	33 - 227	15794				Lys-37 to Gly-43, Phe-57 to Thr-65.	H0063: 1 and H0272: 1.			
HTHDR09	579076	6043	2 - 220	15795				Arg-1 to Gly-16, Ala-28 to Ala-34, Ser-40 to Lys-53.	H0063: 2			
HTHDR24	578848	6044	2 - 208	15796				Ala-1 to Lys-13, Leu-19 to Ile-24, Tyr-26 to Ile-31, Pro-40 to Lys-46.	H0063: 2			
HTHDU80	764136	6045	400 - 558	15797				Leu-19 to Arg-31.	H0580: 1 and H0063: 1.			
HTJAB35	491273	6046	519 - 313	15798					AR089: 14, AR061: 3 H0063: 2, H0487: 1 and H0445: 1.			
	853995	9600	358 - 185	19352								
	880424	9601	239 - 457	19353								
HTJAB39	705432	6047	111 - 260	15799					L0539: 1, H0580: 1 and H0487: 1.			
HTJAD26	681865	6048	112 - 348	15800				Thr-59 to His-67.	H0487: 1 and S0002: 1.			

HTJAE28	703321	6049	113 - 292	15801			H0487: 1 and H0423: 1.		
HTJAE42	668339	6050	245 - 379	15802			H0583: 1, H0487: 1, L0805: 1 and L0740: 1.		
HTJMB71	760226	6051	448 - 200	15803			H0265: 1, H0402: 1, H0488: 1 and H0522: 1.		
	760247	9602	448 - 200	19354					
HTJMD95	924240	6052	222 - 368	15804			H0488: 2		
HTJMH80	774407	6053	115 - 393	15805		Glu-1 to Tyr-7.	H0488: 3		
HTJMQ69	754605	6054	104 - 310	15806			H0591: 2 and H0488: 1.		
HTJMR65	729039	6055	1 - 120	15807		Gly-1 to Gly-9, Pro-16 to Leu-25.	H0488: 2		
HTJMT23	948518	6056	2 - 241	15808			H0488: 2		
HTJMT75	766883	6057	253 - 447	15809			H0488: 2 and L0749: 1.		
HTJMU34	870316	6058	2 - 211	15810			H0488: 2		
HTJMU77	771677	6059	2 - 283	15811		Glu-17 to Ser-26, Lys-61 to Lys-70, Phe-86 to Cys-93.	H0488: 1, L0762: 1, H0543: 1 and H0422: 1.		
HTJMU87	870315	6060	1 - 300	15812		Glu-23 to Tyr-28.	H0069: 1 and H0488: 1.		
HTJMV80	775766	6061	29 - 220	15813		Thr-17 to Ser-24, Glu-28 to Lys-38, Ser-43 to Val-49, Ser-56 to Lys-64.	H0488: 2 and L0605: 1.		
HTJMW42	713132	6062	276 - 461	15814			H0271: 1 and H0488: 1.		
HTJMX71	759910	6063	67 - 255	15815		Tyr-54 to Gln-59.	S0212: 1 and H0488: 1.		
HTJMZ90	787655	6064	7 - 102	15816			H0488: 2		
HTJNB83	766881	6065	1 - 138	15817			H0488: 2		
HTJNC42	713142	6066	61 - 222	15818			S0212: 1 and H0488: 1.	8	
HTJNC53	793328	6067	78 - 332	15819			H0488: 2		
HTJND12	870311	6068	196 - 417	15820			H0488: 2		
HTJNI42	924726	6069	2 - 373	15821		Thr-1 to His-6, Phe-8 to Pro-24, Leu-69 to Ser-75.	H0488: 1 and S0002: 1.		
HTJNK36	924939	6070	172 - 441	15822		Arg-19 to Gly-28.	H0271: 2, H0488: 1, L0438: 1 and L0439: 1.		
HTJNM52	795110	6071	7 - 306	15823		Pro-24 to Ala-29.	T0002: 1, H0488: 1 and		



HTJNQ25	771941	6072	2 - 205	15824	Arg-14 to His-23.	L0602: 1.	
HTJNR19	781702	6073	3 - 161	15825		H0318: 1 and H0488: 1.	
HTJNS23	870336	6074	2 - 535	15826	Ser-8 to Lys-15, Pro-30 to Asp-36.	H0265: 1 and H0488: 1. H0063: 1 and H0488: 1.	
HTJNV55	931039	6075	2 - 244	15827		H0581: 1 and H0488: 1.	
HTOAAA48	870027	6076	2 - 265	15828		H0264: 2	
HTOAF15	866201	6077	2 - 610	15829	Tyr-51 to Glu-57, Ser-164 to Pro-171, Pro-185 to Lys-198.	AR051: 50, AR050: 37, AR054: 35 H0179: 2, L0519: 2, H0265: 1, H0264: 1, L0541: 1, S0053: 1 and S0216: 1.	
HTOAI35	799686	6078	53 - 121	15830		H0264: 3	
HTOAI69	529555	6079	2 - 97	15831	Gln-3 to Asn-8, Glu-22 to Arg-27.	H0264: 2	
HTOAI93	751902	6080	47 - 235	15832		H0264: 2	
HTOAK34	966800	6081	918 - 1196	15833	Ser-67 to Trp-77.	AR089: 1, AR061: 1 L0766: 2, H0264: 1 and H0521: 1.	
HTOAK36	921745	6082	1 - 204	15834	Tyr-31 to Arg-40.	H0264: 2	
HTOAO19	954183	6083	81 - 164	15835		H0264: 2	
HTOAO75	530192	6084	23 - 214	15836	Asn-6 to Phe-16.	H0264: 2	
HTOAT80	530186	6085	3 - 284	15837		H0264: 2	
HTOAU62	738214	6086	3 - 398	15838		H0416: 1 and H0264: 1.	
HTOAU94	620370	6087	10 - 195	15839		H0264: 1, S0002: 1 and H0521: 1.	
HTOAW19	530114	6088	85 - 180	15840	Leu-14 to Glu-24.	H0264: 2	
HTOAW26	530116	6089	2 - 61	15841		H0264: 2	
HTOAW37	507322	6090	177 - 392	15842		H0264: 2 and L0439: 1.	
HTOBA06	960618	6091	3 - 395	15843	Gly-1 to Tyr-9, His-37 to Pro-42, Lys-125 to Pro-131.	H0581: 1, H0272: 1 and S0428: 1.	
HTOBA10	839919	6092	1 - 168	15844	His-40 to Arg-52.	H0272: 1 and H0445: 1.	
HTOBE15	715538	6093	12 - 176	15845	Ser-6 to His-12, Lys-31 to Ser-36.	H0264: 1 and H0272: 1.	

HTOBF03	925407	6094	57 - 146	15846			H0272: 2	
HTOBF07	954184	6095	10 - 141	15847	Pro-14 to Gly-35.		H0272: 2	
HTOBF35	530325	6096	6 - 314	15848	Lys-10 to Gly-16.		H0272: 2	
HTOBF27	682263	6097	2 - 250	15849	Arg-16 to Thr-22.		H0272: 1, S0002: 1 and L0748: 1.	
HTOBF70	740977	6098	27 - 146	15850	Ser-3 to Pro-9.		H0272: 1 and H0488: 1.	
HTOBF011	966734	6099	32 - 169	15851			H0063: 1 and H0272: 1.	
	966776	9603	356 - 192	19355				
HTOCF92	530009	6100	199 - 411	15852	Arg-33 to Lys-38, Pro-60 to Lys-67.		H0272: 2 and L0748: 1.	
HTOCK26	523838	6101	2 - 187	15853	Ser-29 to Gln-34.		H0272: 2 and L0791: 1.	
HTODB23	530149	6102	2 - 142	15854			H0264: 2	
HTODC33	921426	6103	1 - 549	15855			L0766: 6, L0754: 4, L0779: 4, H0264: 2, L0747: 2 and L0777: 1.	
HTODE04	927826	6104	3 - 209	15856			H0264: 3	
HTODE78	530397	6105	20 - 160	15857	Asn-1 to Glu-7, Val-40 to Glu-47.		H0264: 2	
HTODG07	880911	6106	90 - 215	15858	Gly-1 to Ser-7.		H0264: 2	
HTODG10	968505	6107	38 - 157	15859	Glu-1 to Glu-10.		H0264: 2	
HTODG16	909952	6108	1 - 492	15860	Arg-80 to Lys-88, Ser-94 to Arg-103.		AR089: 22, AR061: 6, H0264: 2 and L0766: 1.	
HTODG47	799691	6109	48 - 221	15861	Pro-14 to Ala-19.		H0264: 3 and L0361: 1.	
HTODG55	852560	6110	3 - 194	15862	His-2 to Pro-12.		H0264: 2 and H0521: 1.	
HTODG58	869998	6111	3 - 122	15863	Ile-11 to Tyr-18, Met-29 to Gln-35.		H0264: 2	
HTODG60	558007	6112	19 - 216	15864	Thr-23 to Asn-34, Gln-53 to Phe-58.		H0264: 2	
HTODG83	676384	6113	1 - 135	15865	Arg-27 to Val-33.		H0264: 2	
HTODH04	925386	6114	107 - 286	15866	Pro-31 to Lys-36.		H0264: 2	
HTODH37	708892	6115	70 - 234	15867	Ser-27 to His-34.		S0114: 1 and H0264: 1.	
HTODL81	507295	6116	47 - 178	15868	Val-3 to Gln-8.		H0264: 2	
HTODL85	799701	6117	171 - 302	15869	Phe-38 to Leu-44.		H0264: 4 and H0179: 1.	
HTODM58	811293	6118	3 - 215	15870	Ser-1 to Asn-12.		H0264: 3,	
HTODN21	869967	6119	38 - 163	15871			H0264: 2	

HTODN27	684343	6120	183 - 326	15872			H0581: 1, H0264: 1 and H0521: 1.		
HTODN68	527862	6121	4 - 147	15873	Asp-35 to Ser-40.		H0179: 1 and H0264: 1.	Yq11	400003, 415000
HTOEA06	960551	6122	86 - 211	15874	Lys-8 to Phe-14.		H0264: 3		
HTOEA12	967754	6123	166 - 357	15875	Ala-37 to Met-44.		H0264: 2		
HTOEA25	523546	6124	40 - 96	15876	Thr-9 to Asn-14.		H0264: 2		
HTOEC81	529834	6125	48 - 167	15877	Arg-1 to Thr-18.		H0264: 2		
HTOEC94	529839	6126	213 - 302	15878	Ser-25 to Arg-30.		H0264: 2		
HTOED10	839798	6127	61 - 318	15879	Gln-19 to Leu-24, Ser-28 to Gly-35.		H0069: 1 and H0264: 1.		
HTOED61	742158	6128	214 - 339	15880			S0142: 2 and H0264: 1.		
HTOEG69	967562	6129	3 - 149	15881			H0264: 2		
HTOET10	968492	6130	2 - 109	15882			H0264: 2		
HTOEV37	774641	6131	31 - 141	15883	Val-21 to Lys-33.		S0114: 1 and H0264: 1.		
HTOEV40	529822	6132	286 - 414	15884			H0264: 2		
HTOEV50	529820	6133	77 - 220	15885			H0264: 2		
HTOEY72	659494	6134	136 - 255	15886			H0264: 2		
HTOFA04	845519	6135	1 - 129	15887			H0087: 1 and H0264: 1.		
	869987	9604	158 - 289	19356					
	927327	9605	458 - 129	19357	Ala-1 to Lys-9, Lys-22 to Lys-28, Lys-37 to Asp-43.				
HTOFB55	723256	6136	110 - 256	15888			H0264: 2		
HTOFB73	742153	6137	3 - 164	15889			H0264: 2		
HTOFC70	811291	6138	65 - 355	15890			H0264: 2		
HTOFD10	968469	6139	2 - 133	15891	Ile-20 to Asp-32.		H0264: 2		
HTOFD31	529674	6140	2 - 76	15892			S0114: 1 and H0264: 1.		
HTOFD57	529673	6141	101 - 304	15893			H0264: 2		
HTOFO05	932662	6142	3 - 98	15894	Pro-5 to Leu-16.		H0083: 1 and H0264: 1.		
HTOFO41	529617	6143	34 - 111	15895	Tyr-3 to Leu-11, Arg-14 to Gln-19.		H0264: 2		
HTOFQ48	720880	6144	125 - 316	15896	Thr-12 to Asn-21, Pro-39 to Gln-45.		H0318: 1 and H0264: 1.		
HTOFT22	939903	6145	1870 - 2187	15897	Thr-11 to Gly-24, Pro-27 to Asn-37.		AR061: 6, AR089: 2 H0264: 2		

HTOFT34	963302	9606	750 - 905		Gln-44 to Glu-49, Arg-69 to Arg-84.		
	527144	6146	106 - 270	19358			
				15898		AR089: 8, AR061: 5 H0264: 2 and L0367: 1.	
						H0264: 2	
HTOGA06	960554	6147	1 - 249	15899		H0264: 2	
HTOGA25	529959	6148	37 - 156	15900			
HTOGA35	751989	6149	185 - 337	15901	Ala-11 to Thr-17.	L0750: 3, L0551: 2, L0748: 2, H0486: 1, L0455: 1, H0264: 1, S0002: 1, L0764: 1, L0791: 1 and L0740: 1.	
HTOGA51	530331	6150	6 - 122	15902	Glu-23 to Lys-29.	H0264: 1 and H0272: 1.	
HTOGB55	781591	6151	157 - 390	15903		H0264: 2	
HTOGB92	529810	6152	40 - 132	15904	Lys-18 to Glu-24.	H0264: 2	
HTOGC16	927835	6153	22 - 102	15905		H0264: 2	
HTOGC20	960094	6154	191 - 334	15906	Thr-1 to Gly-13; Pro-26 to Leu-31.	H0318: 1 and H0264: 1.	
HTOGD28	529806	6155	141 - 335	15907		H0264: 2	
HTOGD43	650846	6156	2 - 172	15908	His-7 to Trp-12, Arg-15 to Trp-20, Tyr-22 to Trp-29.	H0264: 1 and H0445: 1.	
HTOGD50	529805	6157	222 - 434	15909		H0264: 2 and L0766: 1.	
HTOGI75	869973	6158	101 - 307	15910	Pro-19 to Gly-24, Ser-41 to Ser-46.	H0264: 2	
HTOGI86	507294	6159	3 - 332	15911	His-1 to Cys-10.	H0264: 2	
HTOGR50	529824	6160	139 - 231	15912		H0264: 2	
HTOGR65	618316	6161	339 - 572	15913		L0749: 2, H0264: 1 and S0002: 1.	
HTOGU30	869971	9607	292 - 624	19359			
	869972	9608	236 - 364	19360			
	961776	6162	13 - 105	15914	Phe-14 to Thr-24.	H0650: 1 and H0264: 1.	
HTOHB03	924986	6163	2 - 193	15915		H0581: 1 and H0264: 1.	
HTOHB42	714073	6164	361 - 158	15916		H0341: 1 and H0264: 1.	
HTOHB66	966688	6165	559 - 768	15917	Pro-18 to Pro-27.	H0318: 4, L0748: 2, H0264: 1 and H0543: 1.	

HTOHC78	577745	6166	18 - 239	15918	Ser-1 to Pro-7, Ala-14 to Thr-25, Pro-38 to Pro-44, Val-62 to Gly-73.	H0264: 2		
HTOHC84	537370	6167	69 - 266	15919	Cys-50 to Gly-56.	H0264: 2		
HTOHD27	799676	6168	3 - 128	15920		H0264: 2		
HTOHE53	531172	6169	1 - 129	15921		S0114: 1 and H0264: 1.		
HTOHG55	537366	6170	133 - 252	15922		H0264: 2		
HTOHJ60	740611	6171	110 - 193	15923		H0318: 1 and H0264: 1.		
HTOHL22	968308	6172	113 - 241	15924		H0264: 2		
HTOHL35	537364	6173	1 - 201	15925	Arg-8 to Val-18, Arg-30 to Cys-36.	AR061: 1, AR089: 0 H0264: 2		
HTOHM54	537363	6174	78 - 266	15926	Pro-6 to Pro-14.	H0264: 2		
HTOHN24	971728	6175	3 - 122	15927	Lys-26 to Arg-33.	H0264: 2		
HTOHN42	537362	6176	28 - 147	15928	Ser-11 to Leu-16, Leu-20 to Arg-25.	H0264: 2		
HTOHP13	530350	6177	4 - 417	15929	Pro-11 to Ala-17.	H0264: 2, H0457: 1, H0271: 17q21 1 and H0543: 1.	109270, 109270, 109270, 109270, 109270, 113705, 113705, 144200, 148065, 148066, 148066, 148067, 148067, 148069, 148080, 154275, 168610, 171190, 176705, 185800, 200350, 221820, 232200, 249000, 252920, 253250, 600119, 600119, 601363, 601844	
HTOHS32	678071	6178	46 - 201	15930	Pro-20 to His-39, Pro-47 to Ser-52.	H0416: 1 and H0264: 1.		
HTOHS68	507136	6179	3 - 311	15931	Asp-7 to Lys-16.	H0264: 2		
HTOHU09	920734	6180	1 - 168	15932		H0264: 2 and S0116: 1.		
HTOHV29	527865	6181	2 - 151	15933	Pro-9 to Glu-14.	H0264: 2		

HTOHX74	507139	6182	1 - 246	15934	Lys-1 to Ala-11, Pro-26 to Lys-41.	H0264: 2	
HTOHZ61	537371	6183	274 - 405	15935	Asn-1 to Tyr-6.	H0264: 2	
HTOIA12	851032	6184	1 - 360	15936		H0457: 1 and H0264: 1.	
HTOIA68	584946	6185	2 - 139	15937	Leu-1 to Arg-8.	H0264: 2	
HTOIJ67	537354	6186	114 - 356	15938	Pro-24 to Asn-32, Ala-36 to Gln-43, Asp-48 to Ala-57, Pro-66 to Arg-71.	H0264: 2	
HTOIK06	954518	6187	34 - 210	15939		S0114: 1, H0318: 1 and H0264: 1.	
HTOIK08	959996	6188	238 - 483	15940	Pro-10 to Gln-17.	L0766: 2, H0306: 1 and H0264: 1.	
HTOIN17	537322	6189	1 - 276	15941	Gly-1 to Leu-6.	H0264: 2	
HTOIO29	506720	6190	63 - 230	15942		H0264: 2	
HTOIO36	537320	6191	92 - 244	15943	Leu-38 to Ser-43.	H0264: 2	
HTOIO79	537321	6192	1 - 174	15944	Gly-1 to Arg-9.	H0264: 2	
HTOIP32	869941	6193	207 - 470	15945		H0264: 2	
HTOIP53	557824	6194	122 - 289	15946		H0264: 2	
HTOIQ05	932440	6195	110 - 274	15947	Gly-2 to Lys-9, Asp-15 to Trp-20.	H0264: 2	
HTOIR12	537319	6196	229 - 80	15948		H0264: 2	
HTOIS27	485268	6197	282 - 413	15949	Gly-24 to Ser-29.	H0264: 1, H0543: 1 and H0423: 1.	
	934366	9609	188 - 292	19361	Ala-23 to Glu-28.		
HTOIT32	418666	6198	2 - 94	15950		H0271: 1 and H0264: 1.	
HTOIW02	920752	6199	1 - 243	15951	Ser-1 to Ser-11.	H0264: 2	
HTOIW40	669595	6200	113 - 271	15952		H0264: 1 and H0543: 1.	
HTOIIY09	836003	6201	40 - 258	15953	Cys-1 to Glu-7, Ser-25 to Ser-32.	H0556: 1, H0264: 1 and H0422: 1.	
HTOIZ34	707039	6202	107 - 241	15954	Ser-6 to Gly-12, Arg-40 to Ala-45.	H0264: 1, H0625: 1, L0666: 1 and L0740: 1.	
HTOJA65	456824	6203	213 - 353	15955	Leu-1 to His-6, Pro-11 to Trp-16.	H0556: 2, H0265: 1 and H0264: 1.	
HTOJA83	574764	6204	50 - 250	15956	Gln-25 to Arg-30,	H0264: 2	

HTOJA96	968510	6205	27 - 107	15957	Tyr-42 to Trp-50.	H0264: 2	
HTOJB59	574761	6206	176 - 316	15958	Gly-10 to Gly-15.	H0264: 2	
HTOJB67	726577	6207	245 - 466	15959	Ser-8 to Met-15, Gly-24 to Pro-29, Lys-63 to Ser-74.	H0445: 2 and H0264: 1.	
HTOJF65	715820	6208	89 - 262	15960		S0114: 1 and H0264: 1.	
HTOJG08	869926	6209	2 - 166	15961		H0264: 2	
HTOJJ24	766963	6210	2 - 391	15962	Arg-43 to Trp-48.	H0341: 1, H0264: 1 and H0543: 1.	
HTOJJ17	574735	6211	18 - 155	15963		H0264: 2, L0748: 1 and L0749: 1.	
HTOJK48	574348	6212	29 - 217	15964		H0264: 2	
HTOJK79	531320	6213	3 - 245	15965		S0114: 1 and H0264: 1.	
HTOJK84	952741	6214	7 - 201	15966	Gly-32 to Ile-37.	H0264: 1 and H0445: 1.	
HTOJL55	825165	6215	8 - 139	15967		S0114: 1 and H0264: 1.	
HTOJL71	574529	6216	23 - 133	15968		H0264: 2	
HTOJM06	936089	6217	396 - 644	15969	Ser-35 to Ala-48, Ser-73 to Gly-82.	H0264: 1, S0428: 1 and S0053: 1.	
HTOJM70	799689	6218	1 - 159	15970		H0264: 3	
HTOJS81	711021	6219	1 - 195	15971		H0556: 1 and H0264: 1.	
HTOJT90	921016	6220	148 - 369	15972	Leu-1 to Thr-6.	H0341: 2, H0264: 2, L0471: 1 and H0542: 1.	
HTSAA22	415775	6221	2 - 181	15973		H0402: 1 and H0087: 1.	
HTSEU58	521995	6222	86 - 271	15974	Trp-10 to Lys-19, Gln-21 to Thr-48.	H0318: 1, H0087: 1 and L0747: 1.	
HTSFZ77	935620	6223	105 - 266	15975	Pro-29 to Asn-34, Glu-43 to Lys-49.	H0402: 3 and H0087: 1.	
HTSGB93	526625	6224	89 - 277	15976		H0087: 4 and L0752: 1.	121700, 122000, 188040
HTSGM65	576062	6225	151 - 309	15977		H0087: 2	
HTSGW24	971724	6226	295 - 609	15978	Ser-35 to Trp-44.	H0087: 1 and S0052: 1.	
HTSHA61	960474	6227	282 - 97	15979	Ala-47 to Phe-52.	H0087: 1 and H0116: 1.	
HTSHD86	773726	6228	182 - 499	15980		H0063: 1 and H0087: 1.	
HTSHF47	720403	6229	99 - 326	15981	Glu-1 to Pro-16.	H0486: 1 and H0087: 1.	

HTSHM38	972248	6230	2 - 604	15982	Asn-6 to Ser-15, Pro-29 to Arg-42, Pro-91 to Gln-108, Lys-123 to Arg-133, Ile-157 to Phe-168, Gln-171 to Val-178, Gly-185 to Pro-197.	AR051: 26, AR054: 20, AR050: 18, AR089: 6, AR061: 2 H0087: 1 and H0264: 1.		
HTUAA40	522671	6231	190 - 330	15983		H0185: 1 and S0052: 1.		
HTUAA86	522076	6232	19 - 96	15984	Val-1 to Thr-11.	H0185: 2 and L0764: 1.		
HTWAB64	522058	6233	2 - 151	15985	Ile-1 to Ile-6.	H0187: 1 and H0576: 1.		
HTWAH16	880725	6234	139 - 243	15986		S0114: 1 and H0187: 1.		
HTWAH51	614968	6235	60 - 167	15987	Lys-16 to Lys-21.	H0187: 1 and H0576: 1.		
HTWAM50	753217	6236	2 - 232	15988		H0341: 1 and H0187: 1.		
HTWBD74	716756	6237	3 - 173	15989	Pro-1 to Gly-10, Pro-17 to Phe-24, Thr-33 to Val-45.	S0002: 1 and H0436: 1.		
HTWBE77	781306	6238	531 - 719	15990		H0436: 1, L0731: 1 and H0445: 1.		
HTWBF61	579041	6239	62 - 187	15991		S0114: 1 and H0436: 1.		
HTWBF65	576623	6240	114 - 605	15992	Gln-59 to Leu-65.	H0341: 1 and H0436: 1.		
HTWBF82	854019	6241	2 - 217	15993		H0436: 2		
HTWBG40	711271	6242	42 - 329	15994	Cys-7 to Ser-13.	H0436: 1, L0748: 1 and H0422: 1.		
HTWBH73	708331	6243	32 - 211	15995	Ser-6 to Asp-12.	H0436: 2		
HTWBJ15	842014	6244	3 - 314	15996	Asp-1 to His-6.	L0596: 2, H0436: 1, H0445: 1 and H0543: 1.		
HTWBJ71	935647	6245	115 - 228	15997	Thr-6 to Gln-12, Glu-16 to Cys-25, Pro-28 to Leu-34.	H0436: 2		
HTWBL88	784364	6246	2 - 178	15998	His-21 to Glu-27, Gly-49 to Lys-59.	H0402: 1 and H0436: 1.		
HTWBN85	577510	6247	1 - 81	15999		S0114: 1 and H0436: 1.		
HTWBO55	732182	6248	385 - 525	16000		H0436: 2 and L0439: 2.		
HTWBR04	787303	6249	3 - 317	16001		H0581: 1 and H0436: 1.		
HTWBZ01	578678	6250	1 - 102	16002	Arg-12 to Ser-33.	H0436: 2		
HTWCA19	582498	6251	131 - 436	16003		S0002: 1 and H0436: 1.		



HTWCA76	770109	6252	3 - 149	16004	Phe-40 to Phe-45.	S0218: 1 and H0436: 1.	
HTWCD27	658018	6253	1 - 186	16005	His-4 to Glu-27.	H0318: 1 and H0436: 1.	
HTWCD40	670812	6254	166 - 348	16006		H0436: 2	
HTWCE72	575962	6255	150 - 272	16007	Gly-3 to Phe-11, Pro-13 to Lys-38.	H0436: 2	
HTWCF06	935641	6256	195 - 371	16008	Gln-17 to Ala-22.	H0306: 1 and H0436: 1.	
HTWCF25	924008	6257	1 - 219	16009	Pro-18 to Lys-25.	H0436: 4	
HTWCF94	747197	6258	132 - 347	16010	Ser-1 to Pro-7, Pro-45 to Gly-54, His-58 to Ser-67.	H0436: 2	
HTWCG45	548176	6259	1 - 165	16011	Lys-17 to Thr-26.	S0278: 1 and H0436: 1.	6q14
HTWCG65	869547	6260	115 - 312	16012	Lys-31 to Lys-47.	AR089: 1, AR061: 0 H0650: 1 and H0436: 1.	136550, 203310, 269920, 602772
HTWCG69	575950	6261	3 - 92	16013	Ala-9 to Ala-17.	S0053: 1 and H0436: 1.	
HTWCI42	713022	6262	1 - 162	16014		H0436: 2	
HTWCK07	953482	6263	204 - 425	16015		S0114: 1 and H0436: 1.	
HTWCI29	740327	6264	2 - 79	16016	Ala-3 to Lys-13.	H0521: 1 and H0436: 1.	
HTWCM36	971129	6265	156 - 380	16017	Ser-2 to Ser-7.	H0305: 2, L0766: 2, H0436: 2, L0777: 2 and L0748: 1.	
HTWCM56	662321	6266	352 - 525	16018	Asn-1 to Gln-12.	S0142: 1 and H0436: 1.	
HTWCN33	577494	6267	230 - 475	16019	Ser-15 to Lys-20.	H0265: 1 and H0436: 1.	
HTWCN83	573580	6268	2 - 280	16020		H0305: 5 and H0436: 1.	
HTWCR25	575959	6269	138 - 338	16021		H0436: 2	
HTWCS11	967190	6270	94 - 204	16022		H0436: 2	
HTWCT42	713870	6271	1 - 150	16023		H0436: 2	
HTWCT61	575975	6272	86 - 232	16024		H0402: 2 and H0436: 1.	
HTWCX32	669745	6273	2 - 97	16025		H0436: 2, L0021: 1 and L0766: 1.	
HTWCY05	920337	6274	1 - 150	16026		H0436: 2	
HTWCY69	869553	6275	100 - 369	16027	Glu-26 to Lys-34.	H0436: 2	
HTWDB72	835624	6276	197 - 376	16028	Tyr-40 to Asp-45, Asn-52 to Ser-57.	H0436: 2	
HTWDF82	921697	6277	3 - 233	16029	Phe-10 to Tyr-22, Arg-45 to Gly-57.	H0179: 1 and H0436: 1.	

HTWDH14	669560	6278	3 - 338	16030	Asp-68 to Asn-74. Ala-7 to Ser-12, Tyr-42 to Lys-50, Asn-62 to Ile-67, Thr-100 to Val-105.	H0521: 2, S0114: 1, L0654: 1, H0522: 1 and H0436: 1.		
HTWDH75	767368	6279	138 - 302	16031		H0556: 1 and H0436: 1.		
HTWDM43	715352	6280	147 - 314	16032	Pro-43 to Ser-51.	S0474: 2, H0436: 1, L0749: 1 and H0542: 1.		
HTWDN01	916680	6281	75 - 221	16033	Glu-37 to Ala-42.	H0436: 2		
HTWDN17	664115	6282	1 - 345	16034	Asn-50 to Gly-55, Gln-69 to Leu-74.	H0436: 1 and H0543: 1.		
HTWDQ60	575939	6283	1 - 105	16035		H0436: 2		
HTWDS35	697825	6284	3 - 374	16036	Glu-15 to Tyr-24, Lys-29 to Lys-34, Leu-38 to His-43, Arg-47 to Glu-57, Ser-65 to Gln-78, Arg-86 to Ala-91, Leu-95 to Gln-100, Gln-107 to Glu-115.	L0803: 1, H0521: 1 and H0436: 1.		
HTWEA61	965453	6285	3 - 368	16037	Glu-24 to Thr-30, Ser-39 to Pro-44.	H0436: 2		
HTWEC63	735003	6286	2 - 136	16038	Gln-1 to Glu-21.	S0114: 1 and H0436: 1.		
HTWED17	663714	6287	257 - 370	16039		S0218: 1, H0370: 1 and H0436: 1.		
HTWED28	686598	6288	269 - 400	16040	Arg-11 to Leu-19.	H0581: 1 and H0436: 1.		
HTWEG12	970538	6289	3 - 167	16041	Arg-39 to Gly-49.	H0436: 2		
HTWEH16	661860	6290	3 - 227	16042	Ser-42 to Ser-52, His-60 to Arg-70.	H0341: 1 and H0436: 1.		
HTWEJ14	792648	6291	171 - 371	16043	Phe-11 to Cys-17.	H0436: 2		
HTWEM37	449136	6292	3 - 260	16044	Pro-26 to Pro-36, Phe-54 to Gly-65.	H0264: 1 and H0436: 1.		
HTWEM63	745024	6293	346 - 77	16045		H0436: 1 and H0423: 1.		
HTWER78	836799	6294	16 - 378	16046	Arg-74 to Tyr-80.	H0486: 1 and H0436: 1.		
HTWES75	767257	6295	88 - 180	16047		H0436: 2		
HTWEU29	711673	6296	3 - 224	16048	Arg-56 to Ser-65.	L0439: 2, T0041: 1, H0436: 1q21-q22	104770, 107670,	

									1 and L0748: 1.			110700, 135940, 145001, 146790, 152445, 152445, 159001, 159440, 159440, 159440, 174000, 179755, 182860, 182860, 182860, 186780, 191030, 191315, 230800, 230800, 266200, 600897, 600923, 601105, 601412, 601652, 602491
HTWEX09	625458	6297	3 - 182	16049		Glu-1 to Ala-6.			H0436: 1 and H0444: 1.			
HTWEX18	666305	6298	210 - 353	16050					H0436: 1 and H0423: 1.			
HTWEY30	918641	6299	661 - 434	16051		Ser-18 to Phe-27, Ser-30 to Ser-40, Thr-50 to Lys-55.			H0436: 2 and L0751: 1.			
HTWFB37	708908	6300	3 - 164	16052		Thr-45 to Gly-53.			H0306: 1 and H0436: 1.			
HTWFB75	767253	6301	85 - 243	16053		Asp-6 to Gly-12, Gln-23 to Gln-29, Arg-37 to Gly-49.			S0116: 1, H0421: 1 and H0436: 1.			
HTWFF46	869499	6302	2 - 205	16054		Lys-25 to Trp-31, Arg-43 to Pro-53, Pro-59 to Lys-64.			H0436: 5			
HTWFG44	935270	6303	224 - 478	16055		Glu-31 to Gly-38, Ser-45 to Arg-50, Gly-56 to Ile-62, Pro-70 to Cys-81.			H0457: 1 and H0436: 1.			
HTWFI19	668579	6304	216 - 332	16056		Pro-13 to Val-18, Pro-20 to Trp-29.			H0436: 4			
HTWFK15	869498	6305	139 - 282	16057					H0436: 2			
HTWFM20	917272	6306	195 - 536	16058		Pro-77 to Thr-86.			S0114: 1, H0063: 1 and H0436: 1.			
HTWFN64	757593	6307	105 - 278	16059					H0402: 1 and H0436: 1.			

HTWFO63	658473	6308	75 - 131	16060		H0542: 2, H0402: 1, H0318: 1, H0436: 1, L0753: 1 and L0758: 1.		
HTWFP14	869489	6309	3 - 209	16061	His-9 to Gly-14.	H0436: 2		
HTWFP33	916562	6310	79 - 309	16062	Arg-27 to Leu-33, Val-51 to Asp-56, Arg-64 to Gly-72.	H0402: 1, H0264: 1 and H0436: 1.		
HTWFP33	721768	6311	272 - 400	16063	Pro-1 to Gly-6.	H0402: 1 and H0436: 1.		
HTWFR17	663697	6312	20 - 253	16064		H0264: 1 and H0436: 1.		
HTWJA24	954881	6313	281 - 538	16065		H0576: 2, S0002: 1 and L0599: 1.		
HTWJA59	812705	6314	130 - 279	16066	Gly-30 to Gln-37.	H0576: 2		
HTWJA83	780990	6315	70 - 216	16067	His-25 to Asn-35.	H0576: 2		
HTWJA95	796259	6316	139 - 258	16068	Met-6 to Asn-11, Pro-34 to Gln-40.	H0576: 2		
HTWJC43	715081	6317	49 - 207	16069	Ser-11 to Gly-20.	H0583: 1 and H0576: 1.		
HTWJC75	767134	6318	3 - 77	16070	Glu-3 to Glu-13, Lys-15 to Asn-22.	H0576: 2	2	
HTWJC85	757125	6319	200 - 334	16071	Arg-27 to Tyr-32.	H0556: 1 and H0576: 1.		
HTWJF59	693116	6320	197 - 361	16072	Met-1 to Gly-25, Tyr-27 to Met-39.	H0576: 1 and H0444: 1.		
HTWJF66	576164	6321	204 - 443	16073	Gln-5 to Phe-10.	H0255: 1, H0576: 1 and H0423: 1.		
HTWJF95	745182	6322	78 - 248	16074		H0402: 1, H0576: 1 and H0423: 1.		
HTWJH57	812698	6323	68 - 265	16075	Trp-4 to Ser-9, Pro-54 to Pro-61.	H0576: 1 and H0445: 1.		
HTWJL91	789487	6324	243 - 368	16076		S0114: 1, H0576: 1 and L0750: 1.		
HTWJM05	850055	6325	68 - 250	16077		H0402: 2 and H0576: 1.		
HTWJO45	717592	6326	43 - 192	16078	Thr-25 to Thr-32, Arg-43 to Lys-49.	H0576: 2 and L0776: 1.		
HTWJQ19	668466	6327	253 - 342	16079	Pro-23 to Val-29.	H0254: 1, H0576: 1 and H0422: 1.		
HTWJY82	698335	6328	1 - 93	16080		S0114: 1 and H0576: 1.		
HTWKG30	691882	6329	21 - 131	16081	Pro-1 to Trp-6.	H0589: 1 and H0576: 1.		

HTWK53	728014	6330	3 - 269	16082	Lys-12 to Met-24, Pro-43 to Asp-50, Glu-63 to Ser-68, Pro-73 to Ser-88.	H0576: 2		
HTWKT61	709451	6331	44 - 118	16083		H0576: 2		
HTWKX27	574092	6332	29 - 265	16084	Leu-16 to Val-21.	S0053: 1, H0576: 1 and L0748: 1.		
HTWKZ04	614980	6333	109 - 294	16085	Phe-5 to Ile-11.	S0426: 1 and H0576: 1.		
HTWKZ17	529749	6334	234 - 365	16086		H0265: 2 and H0576: 1.		
HTWLD37	841951	6335	89 - 400	16087		S0053: 1 and H0576: 1.		
HTWLG13	656772	6336	2 - 160	16088	Gln-43 to Gly-53.	H0255: 1 and H0576: 1.		
HTWLG76	795694	6337	267 - 539	16089		S0182: 1 and H0576: 1.		
HTXAK52	869460	6338	7 - 264	16090	Arg-1 to Gly-14.	H0265: 1 and H0318: 1.		
HTXAK78	530137	6339	174 - 347	16091	Leu-30 to Thr-35.	H0265: 2		
HTXAO23	676386	6340	15 - 92	16092		H0265: 1 and S0114: 1.		
HTXBF75	963029	6341	98 - 277	16093	Ser-23 to Gln-40.	H0265: 1 and H0556: 1.		
HTXBH24	418592	6342	2 - 151	16094		H0265: 2		
HTXBJ36	529759	6343	17 - 232	16095	Ser-13 to Leu-19.	H0265: 2		
HTXBJ92	706472	6344	227 - 361	16096		L0749: 2, H0265: 1, H0402: 1 and L0667: 1.		
HTXBK75	869401	6345	1 - 123	16097		H0265: 2		
HTXBN83	781443	6346	3 - 101	16098		H0265: 1 and S0218: 1.		
HTXBO11	967750	6347	176 - 400	16099	Lys-25 to Pro-31.	H0265: 1 and H0421: 1.		
HTXBO21	869461	6348	2 - 193	16100		H0265: 1 and H0542: 1.		
HTXBO51	970855	6349	146 - 592	16101	Leu-1 to Gln-19, Ala-84 to Gly-99, Pro-128 to Arg-142.	L0777: 2, H0265: 1, H0556: 1, H0255: 1, L0662: 1, L0375: 1, L0378: 1 and L0519: 1.		
HTXBX49	529662	6350	91 - 195	16102		H0265: 2		
HTXBX77	529661	6351	120 - 353	16103	Ser-59 to Gln-64.	H0265: 2		
HTXCB32	529615	6352	199 - 402	16104	Pro-21 to Lys-32.	H0265: 2 and L0596: 1.		
HTXCL28	952022	6353	56 - 175	16105		H0265: 2 and H0556: 1.		
HTXCU76	765655	6354	188 - 589	16106	Cys-122 to His-131.	H0265: 1, H0556: 1, H0457: 1 and L0766: 1.		
HTXCW16	522365	6355	50 - 265	16107	Val-10 to Cys-17.	H0265: 2		

HTXCW27	491257	6356	378 - 166	16108			H0265: 1 and H0522: 1.		
HTXCX05	932476	6357	148 - 303	16109			H0265: 1 and H0556: 1.		
HTXCY16	537413	6358	1 - 231	16110		Arg-12 to Gly-21, Ala-23 to His-32, Ala-59 to Gln-71.	H0265: 2		
HTXCY84	924996	6359	2 - 241	16111			H0265: 2		
HTXCZ16	537485	6360	213 - 416	16112		Glu-14 to Asp-19.	H0265: 2		
HTXDG37	968886	6361	71 - 466	16113		Arg-5 to Gly-13.	AR051: 14, AR050: 13 H0265: 1, L0637: 1, L0766: 1 and H0521: 1.		
HTXDI51	537474	6362	86 - 235	16114		Ser-28 to Val-34, Leu-43 to Arg-48.	H0265: 2		
HTXDO50	537487	6363	120 - 314	16115			H0265: 2		
HTXDQ25	869369	6364	1 - 306	16116		Ser-4 to Ser-15.	H0265: 1 and H0556: 1.		
HTXDS80	869435	6365	2 - 82	16117		Pro-1 to Lys-9.	H0265: 2		
HTXDW14	966588	6366	1145 - 432	16118		Tyr-17 to Asp-22, Pro-75 to Ser-81.	H0265: 1, H0583: 1 and L0741: 1.		
HTXDX61	784768	6367	1 - 423	16119		Arg-1 to Asp-16.	AR061: 6, AR089: 3 H0265: 1, H0264: 1, H0488: 1 and H0543: 1.		
HTXDX82	931113	6368	307 - 513	16120		Leu-20 to His-31.	H0265: 1 and H0556: 1.		
HTXDZ01	921486	6369	62 - 223	16121			H0265: 2 and S0134: 1.		
HTXEA41	974530	6370	198 - 422	16122		Thr-1 to Trp-10, Phe-18 to Arg-25.	H0265: 2		
HTXEA62	812833	6371	22 - 294	16123			H0265: 1 and S0428: 1.		
HTXEC53	529755	6372	118 - 369	16124		Thr-1 to Asn-7, Phe-21 to Ser-27.	H0265: 2 and L0589: 1.		
HTXEE70	537405	6373	2 - 157	16125		Pro-26 to Pro-37.	H0265: 1 and H0264: 1.		
HTXEM54	764221	6374	109 - 261	16126		Arg-4 to Pro-11, Thr-45 to Glu-50.	H0265: 2	17p13	138190, 254210, 271900, 600179, 600977, 601202, 601777
HTXEP20	537483	6375	3 - 194	16127		Gly-1 to Gln-9, Trp-11 to Arg-21, Gly-26 to Lys-32, Ala-38 to Phe-50.	H0265: 2		

HTXEP49	722181	6376	191 - 400	16128		L0589: 2, H0265: 1 and H0090: 1.	
HTXEP76	527697	6377	114 - 365	16129		H0265: 1, H0305: 1 and S0426: 1.	
HTXEQ05	932471	6378	65 - 235	16130		H0265: 2 and H0305: 1.	
HTXET61	537471	6379	3 - 191	16131		H0265: 2	
HTXET67	783784	6380	68 - 211	16132		H0265: 1 and H0556: 1.	
HTXET75	664468	6381	1 - 174	16133		H0265: 1 and S0053: 1.	
HTXEW14	932437	6382	37 - 219	16134	Lys-5 to Ala-11.	H0265: 2	
HTXFB03	924995	6383	176 - 316	16135	Pro-15 to Gly-32.	H0265: 2, S0134: 1, S0474: 1, L0662: 1, H0576: 1 and L0599: 1.	
HTXFB78	869408	6384	3 - 263	16136	Pro-34 to Phe-40.	H0265: 1 and H0556: 1.	
HTXFB95	537399	6385	3 - 332	16137	Trp-21 to Gln-26, Thr-37 to Ser-43, Glu-78 to Cys-84.	H0265: 2	
HTXFC07	918644	6386	254 - 430	16138	Gln-27 to Arg-32.	H0265: 1, H0556: 1 and L0749: 1.	
HTXFD75	537401	6387	94 - 231	16139	Ser-23 to Thr-28.	H0265: 2	
HTXFE47	790855	6388	189 - 464	16140		H0556: 20, H0265: 8, H0638: 1, H0660: 1, H0521: 1 and L0749: 1.	
HTXFF04	615593	6389	399 - 653	16141	Lys-18 to Pro-26.	H0265: 1, H0318: 1 and L0748: 1.	
HTXFF66	973429	6390	91 - 438	16142	Pro-27 to Ser-32, Glu-41 to Ser-47, His-85 to Trp-90, Glu-92 to Val-111.	H0265: 2 and H0556: 1.	
HTXFF91	780083	6391	145 - 258	16143		H0265: 2	
HTXFI58	557838	6392	2 - 151	16144	Thr-8 to Trp-19, Glu-24 to Tyr-29.	H0265: 2	
HTXFK45	523385	6393	108 - 218	16145	Tyr-12 to Tyr-24.	H0265: 2	
HTXFN69	869397	6394	3 - 476	16146	Val-7 to Phe-14, Glu-32 to Glu-39.	H0265: 1, H0556: 1 and H0607: 1.	
HTXFAQ5	926534	6395	442 - 549	16147	Asp-9 to Lys-14.	H0265: 1 and H0370: 1.	
HTXFS95	796025	6396	23 - 325	16148	Pro-22 to Val-30.	H0265: 1, H0556: 1 and	

HTXFT03	924952	6397	2 - 100	16149		S0216: 1.		
HTXFT60	923937	6398	2 - 244	16150	Ala-1 to Cys-9, Cys-13 to Gly-18.	H0556: 7, H0265: 1 and L0748: 1.		
HTXFFV22	537491	6399	167 - 322	16151		H0265: 1 and H0556: 1.		
HTXGB20	933878	6400	1 - 93	16152		H0265: 2		
HTXGB65	577711	6401	182 - 448	16153	Met-26 to Pro-39.	H0305: 2, H0265: 1, H0589: 1 and L0592: 1.		
HTXGD30	529724	6402	63 - 185	16154	Gly-5 to Leu-12.	H0265: 2 and H0556: 1.		
HTXGL73	529745	6403	15 - 242	16155		H0265: 2 and H0556: 2.		
HTXGN76	527016	6404	246 - 500	16156		H0265: 2 and H0318: 1.		
HTXGO74	869391	6405	1 - 84	16157		H0265: 2		
HTXGQ37	575461	6406	49 - 306	16158	Gly-40 to Lys-46.	H0265: 1 and S0114: 1.		
HTXHA16	661818	6407	46 - 351	16159	Gly-17 to Gln-23.	H0265: 2		
HTXHD24	727469	6408	53 - 274	16160		H0265: 2 and H0556: 1.		
HTXJA66	698461	6409	26 - 238	16161	Lys-41 to Leu-51.	H0265: 1 and H0556: 1.		
HTXJB15	660059	6410	131 - 277	16162		H0556: 2		
HTXJB35	707768	6411	43 - 348	16163	Gly-60 to Gly-67.	H0556: 1, H0625: 1, L0603: 1 and L0697: 1.		
HTXJC65	666565	6412	1 - 177	16164	Thr-11 to Tyr-19, Phe-32 to Phe-38.	H0556: 1, L0520: 1, L0794: 1 and H0422: 1.		
HTXJE76	745813	6413	166 - 318	16165		H0265: 1 and H0556: 1.		
HTXJF30	692607	6414	106 - 456	16166		H0556: 1, H0421: 1 and L0766: 1.		
HTXJG06	933230	6415	161 - 379	16167	Lys-1 to Gly-20, Leu-31 to Phe-36, Met-39 to Gly-48, Gln-57 to Arg-67.	H0543: 2, H0265: 1, H0556: 1 and H0423: 1.		
HTXJG19	974010	6416	213 - 335	16168		H0265: 1 and H0556: 1.		
HTXJG23	675315	6417	265 - 414	16169	Ser-24 to Lys-31, Val-45 to Ser-50.	H0556: 3		
HTXJG53	752160	6418	2 - 307	16170	Gly-19 to Gly-24, Ser-75 to Gly-83.	L0742: 2, H0556: 1, H0255: 1 and L0754: 1.		
HTXJH73	582143	6419	152 - 304	16171	Val-37 to Glu-42.	H0265: 1 and H0556: 1.		



HTXJL68	912611	6420	1 - 297	16172	Ile-2 to Cys-14, Asp-38 to Leu-43.	H0556: 2	
HTXJ55	959169	6421	61 - 288	16173		H0556: 2	
HTXJK23	675782	6422	77 - 340	16174	Pro-7 to Pro-14, Pro-55 to Ser-61, Gly-70 to Asp-76.	H0556: 1 and S0002: 1.	
HTXJL01	916254	6423	116 - 334	16175		S0052: 3, H0556: 1 and L0777: 1.	
HTXJL02	919691	6424	259 - 483	16176		H0556: 1, H0650: 1 and L0759: 1.	
HTXJM73	783572	6425	1 - 138	16177	Gly-3 to Pro-11.	H0556: 2	
HTXJN04	566887	6426	298 - 684	16178	Ser-41 to Ser-49, Gly-77 to Arg-83, Arg-91 to Arg-96.	AR051: 46, AR050: 46, AR054: 28 H0556: 2 and H0265: 1.	
HTXJN68	752940	6427	79 - 288	16179	Gln-13 to Thr-18.	H0556: 1 and S0002: 1.	
HTXJO34	703973	6428	82 - 225	16180	Arg-8 to Asp-17.	H0265: 1 and H0556: 1.	
HTXJO61	663153	6429	2 - 361	16181	Pro-20 to Arg-28.	H0556: 2	
HTXJO85	869123	6430	24 - 341	16182	Arg-52 to Ser-57, Gly-67 to Cys-78.	H0556: 2 and L0599: 1.	
HTXJP28	974315	6431	35 - 355	16183		H0265: 1, H0556: 1 and H0635: 1.	
HTXJQ73	719077	6432	373 - 513	16184	Ile-7 to Ser-12.	H0556: 1 and S0052: 1.	
HTXJR67	739586	6433	3 - 182	16185		H0265: 1 and H0556: 1.	
HTXJS64	746481	6434	430 - 570	16186	Gln-5 to Arg-12, Arg-16 to Cys-27.	H0556: 1, H0581: 1 and H0445: 1.	
HTXJV49	867083	6435	235 - 726	16187	Leu-21 to Gln-32, Gly-39 to Ser-63.	H0265: 1 and H0556: 1.	
HTXJW56	859854	6436	2 - 295	16188	Lys-1 to Thr-10.	H0556: 1 and S0216: 1.	
HTXJY51	872233	6437	8 - 229	16189	Lys-1 to His-7, Cys-37 to Arg-43.	H0556: 1, S0052: 1 and H0521: 1.	
HTXKB42	841986	6438	135 - 326	16190	Lys-19 to Thr-30.	H0556: 2	
HTXKC23	529756	6439	90 - 233	16191		H0556: 4, H0265: 2 and L0601: 1.	
HTXKD62	743435	6440	1 - 285	16192	Pro-10 to Lys-16, Asn-22 to Pro-33.	H0265: 1 and H0556: 1.	
HTXKH47	720186	6441	202 - 330	16193		H0556: 2	

HTXKJ93	796245	6442	1 - 264	16194	Cys-9 to Gly-14.	H0265: 1, H0556: 1 and L0748: 1.	12	
HTXKJ55	671285	6443	121 - 315	16195	His-2 to His-7.	H0265: 1, H0556: 1 and L0543: 1.		
HTXKJ58	574788	6444	1 - 486	16196	Arg-1 to Leu-11, Ser-54 to Val-59, Gly-61 to Tyr-67, Pro-76 to Pro-94, Glu-99 to Ala-104.	H0271: 7, H0556: 1 and H0416: 1.		
HTXKJ89	767234	6445	203 - 385	16197	Thr-7 to Trp-15, Pro-19 to Ile-25, Gly-42 to Val-47.	H0556: 2		
HTXKJ95	795788	6446	43 - 234	16198	Pro-42 to Arg-47.	H0556: 2		
HTXKK62	751050	6447	3 - 347	16199		H0556: 1, S0278: 1, L0805: 1 and H0422: 1.	12q22	147440, 201470, 235800, 273300
HTXKM25	664886	6448	2 - 175	16200	Glu-1 to Trp-13, His-36 to Arg-41.	H0265: 1 and H0556: 1.		
HTXKM84	782951	6449	31 - 216	16201		H0265: 1 and H0556: 1.		
HTXKN90	787551	6450	190 - 309	16202		H0556: 3		
HTXKP42	713631	6451	321 - 452	16203	Lys-5 to Asn-11.	L0439: 4 and H0556: 2.		
HTXKQ25	934801	6452	137 - 364	16204	Glu-22 to His-37, Phe-67 to Arg-76.	H0556: 1, S0218: 1 and L0754: 1.		
HTXKQ55	947789	6453	3 - 305	16205	Asp-21 to Lys-26.	AR061: 2, AR089: 2 H0265: 1 and H0556: 1.	13q12	121011, 121011, 129500, 253700, 601885, 602221
HTXKS02	919676	6454	84 - 293	16206		H0556: 2		
HTXKU69	754404	6455	42 - 410	16207	Arg-7 to Ala-19.	H0556: 2 and L0757: 1.		
HTXKV16	869348	6456	221 - 376	16208	Arg-1 to Thr-10, Met-25 to Asp-39.	H0556: 2		
HTXKV38	918567	6457	7 - 192	16209		H0556: 3 and H0445: 1.		
HTXKZ89	786409	6458	186 - 305	16210		H0063: 2 and H0556: 1.		
HTXLA63	917316	6459	140 - 409	16211	Leu-1 to Ala-6, Ser-48 to Lys-53.	H0556: 1, S0114: 1 and S0116: 1.		
HTXLD06	934555	6460	243 - 491	16212	Tyr-37 to Gly-43, Arg-45 to Val-52, Lys-63 to Gly-70.	H0556: 2 and S0052: 1.		

HTXLD68	752484	6461	3 - 272	16213	His-7 to Gly-17, Glu-23 to Ile-31, Ala-38 to Phe-43.	H0265: 1, H0556: 1 and H0436: 1.		
HTXLE37	790392	6462	22 - 228	16214		H0265: 1, H0556: 1 and L0545: 1.		
HTXLE56	861983	6463	350 - 535	16215	Lys-14 to Ser-19, Gln-36 to Arg-43.	H0556: 1, H0300: 1 and H0179: 1.		
HTXLE75	766798	6464	404 - 670	16216	Thr-1 to Lys-10, Glu-36 to Cys-50.	H0556: 1, H0264: 1, L0804: 1 and H0445: 1.		
HTXLE79	774125	6465	76 - 420	16217	Trp-29 to Arg-35.	H0265: 1 and H0556: 1.		
HTXLF08	958421	6466	3 - 119	16218	Ala-6 to Arg-11.	H0556: 1, L0665: 1, L0750: 1 and H0445: 1.		
HTXLG57	790610	6467	1 - 306	16219	Arg-28 to Gln-35, Thr-44 to Lys-51, Lys-55 to Gly-61.	H0556: 1 and H0090: 1.		
HTXLG64	974598	6468	392 - 667	16220		H0265: 2 and H0556: 1.		
HTXLH60	869336	6469	275 - 421	16221		H0556: 2		
HTXLI65	974018	6470	277 - 456	16222		H0556: 2 and H0265: 1.		
HTXLI91	787577	6471	178 - 381	16223	Gln-29 to Gln-35, Ser-58 to Gln-67.	H0556: 2		
HTXLJ70	756679	6472	401 - 631	16224	Arg-36 to Ala-42.	H0556: 1 and H0271: 1.		
HTXLK35	840283	6473	249 - 455	16225		L0766: 2, H0556: 1, H0656: 1, H0255: 1, L0740: 1, L0749: 1, H0444: 1 and L0592: 1.		
HTXLK95	795355	6474	161 - 286	16226	Arg-1 to Ser-15.	H0265: 1 and H0556: 1.		
HTXLL78	773071	6475	1 - 183	16227	Thr-24 to Gln-34.	H0556: 2		
HTXLL89	786475	6476	114 - 287	16228	Pro-41 to Thr-46.	H0556: 3 and H0265: 1.		
HTXLN72	951958	6477	3 - 158	16229		H0556: 3		
HTXLO02	918658	6478	126 - 356	16230		H0556: 2 and L0748: 1.		
HTXLO14	869332	6479	167 - 358	16231		H0556: 2		
HTXLP15	869202	6480	206 - 466	16232	Glu-27 to Met-32.	H0556: 4		
HTXLP18	973431	6481	67 - 279	16233	Glu-14 to His-21, His-36 to Lys-45.	H0556: 5 and H0265: 1.		
HTXLQ28	869331	6482	1 - 267	16234	Ser-8 to Asp-13, Gly-26 to Trp-32.	H0556: 2 and H0265: 1.		

HTXLT33	919761	6483			Arg-44 to Leu-49.			H0556: 1 and H0543: 1.		
HTXLU64	783411	6484	1 - 147	16235	Ser-18 to Asp-24.			H0265: 1 and H0556: 1.		
HTXLU82	779215	6485	63 - 266	16236	Gln-9 to Phe-14, Asn-27 to Asn-32.					
HTXLV39	972762	6486	1 - 297	16237	Pro-33 to Ser-43, Glu-59 to Phe-64.			H0265: 1 and H0556: 1.		
HTXLY02	866819	6487	210 - 482	16238	Pro-13 to Arg-18, Leu-39 to Asn-44, Ser-58 to Tyr-63.			H0556: 2 and S0114: 1.		
HTXMC82	779198	6488	181 - 525	16240	Gln-31 to Phe-36.			H0556: 1 and H0265: 1.		
HTXMH13	928105	6489	319 - 480	16241	Ala-1 to His-7.			H0265: 1 and H0556: 1.		
HTXMH80	775487	6490	528 - 803	16242				H0556: 1 and H0069: 1.		
HTXMI18	921101	6491	82 - 282	16243				H0556: 1 and T0041: 1.		
HTXMI62	870456	6492	1 - 402	16244	Arg-4 to Pro-13, Gly-45 to Val-52.			H0556: 2		
HTXMI03	923001	6493	141 - 350	16245				H0265: 1 and H0556: 1.		
HTXMI50	830027	6494	2 - 358	16246	Asp-1 to Glu-6, Ile-14 to Ala-21, Pro-49 to Phe-67, His-73 to Ser-98.			H0265: 2, H0556: 1 and L0748: 1.	Xq21	305450, 309600, 309605, 311360, 314580
HTXMO28	823172	6495	2 - 232	16247	Gln-7 to Ala-17.			H0556: 2 and L0589: 1.		
HTXMO81	869319	6496	210 - 536	16248				H0556: 2 and L0415: 1.		
HTXMP92	972759	6497	291 - 566	16249	Pro-10 to Asn-16.			H0556: 2 and H0265: 1.		
HTXMQ07	952206	6498	115 - 294	16250	Asp-1 to Asn-6.			H0556: 1, S0218: 1 and H0591: 1.		
HTXMT06	933376	6499	50 - 247	16251	Lys-61 to Ala-66.			H0265: 1 and H0556: 1.		
HTXMU10	961472	6500	2 - 100	16252	Ser-15 to Ala-20.			H0556: 2 and H0090: 1.		
HTXMX03	923005	6501	578 - 763	16253	Ser-22 to Lys-27.			H0556: 2, H0445: 2, L0748: 1 and H0444: 1.		
HTXMX32	789063	6502	3 - 212	16254	Glu-8 to Lys-13.			H0556: 1 and H0063: 1.		
HTXMX41	789332	6503	247 - 459	16255	Cys-10 to Ala-17, Thr-39 to Pro-45.			H0556: 1, H0063: 1, L0375: 1, L0750: 1 and L0758: 1.		
HTXMY15	780129	6504	253 - 501	16256	Glu-1 to Asn-9.			H0556: 2 and H0179: 1.		
HTXMY23	835044	6505	522 - 217	16257	Asp-19 to Val-24.			AR051: 38, AR050: 35,		

									AR054: 32 H0556: 1 and S0002: 1.		
	835045	9610	642 - 361	19362							
HTXNZ91	789619	6506	26 - 148	16258			Ile-33 to Ser-40.		H0556: 2		
HTXND08	869311	6507	379 - 618	16259					H0556: 3, H0583: 1 and H0625: 1.		
HTXND91	789706	6508	317 - 592	16260					H0556: 1 and S0114: 1.		
HTXNF56	974048	6509	125 - 373	16261					H0556: 2 and H0265: 1.		
HTXNJ80	966045	6510	151 - 282	16262					H0556: 2		
HTXNM82	973993	6511	218 - 346	16263					H0556: 3		
HTXNN03	922997	6512	262 - 405	16264					H0556: 2		
HTXNN33	780965	6513	692 - 483	16265			Gly-5 to Leu-10.		H0556: 5, L0766: 2, H0265: 1, H0521: 1 and L0748: 1.		
HTXNO48	963444	6514	154 - 255	16266					H0556: 2		
HTXNO58	916249	6515	115 - 414	16267			Gln-17 to Glu-39, Gln-62 to Lys-67, Leu-71 to Gln-76.		H0556: 2		
HTXNQ06	934303	6516	157 - 288	16268					H0556: 1 and H0445: 1.		
HTXNQ63	951939	6517	29 - 229	16269			Pro-1 to Gly-9, Lys-16 to Cys-27.		H0556: 3		
HTXNR01	913781	6518	151 - 396	16270					H0556: 2, H0265: 1, H0255: 1 and H0444: 1.		
HTXNR17	856465	6519	45 - 479	16271			Arg-1 to Lys-14, Glu-37 to Gly-43, Cys-47 to Gly-57, Ala-103 to Gly-108.		H0556: 8, H0265: 1, S0114: 1, H0445: 1 and H0542: 1.		
HTXNT07	952165	6520	182 - 775	16272			Pro-14 to Pro-28.		L0740: 3, L0777: 2, H0556: 1, S0114: 1 and L0780: 1.		
HTXNT43	869398	6521	509 - 664	16273					H0265: 1 and H0556: 1.		
HTXNT76	869189	6522	481 - 732	16274					H0556: 2, L0439: 2, L0438: 1, L0747: 1 and L0749: 1.		
HTXNU51	972837	6523	3 - 350	16275					H0556: 3		
HTXNY70	869289	6524	67 - 315	16276			Val-27 to Leu-32.		H0556: 2		
HTXNY74	918076	6525	36 - 536	16277			Arg-1 to Gly-7, Phe-11 to Arg-23.		H0556: 2 and H0179: 1.		
HTXOC32	869280	6526	394 - 639	16278					H0556: 2 and H0265: 1.		

HTXOD62	806643	6527	13 - 234	16279			H0556: 1 and H0522: 1.		
HTXOG84	929289	6528	20 - 358	16280		His-2 to Gly-10, Glu-22 to Arg-28.	H0265: 1, H0556: 1, H0657: 1 and H0543: 1.		
HTXOH04	926909	6529	119 - 295	16281			H0556: 2		
HTXOH60	869271	6530	2 - 172	16282			H0265: 1 and H0556: 1.		
HTXOI50	869279	6531	348 - 554	16283			H0556: 4		
HTXOI92	974039	6532	280 - 477	16284		Asn-1 to Arg-11, Pro-13 to Ser-24.	H0265: 2, H0556: 2, H0255: 2 and H0423: 1.		
HTXOM10	963435	6533	1 - 108	16285		Met-13 to His-21.	H0265: 1 and H0556: 1.		
HTXOO06	934248	6534	347 - 535	16286		Thr-55 to Gln-61.	H0556: 2, L0749: 2, S0218: 1 and L0748: 1.		
HTXOO83	898860	6535	105 - 410	16287			H0556: 3, S0052: 2, S0134: 1, H0306: 1 and S0053: 1.		
HTXOR11	965090	6536	2 - 148	16288		Lys-1 to Glu-6.	H0556: 2		
HTXOR48	869253	6537	262 - 591	16289		Pro-46 to Gln-52, Thr-61 to Val-70.	H0556: 2 and L0595: 1.		
HTXOR86	914739	6538	64 - 255	16290		Gln-35 to His-44.	H0556: 4		
HTXOS47	965558	6539	34 - 198	16291		Gln-1 to Gly-8.	H0556: 3, L0759: 3, S0212: 1 and L0805: 1.		
HTXOT42	974034	6540	74 - 433	16292			H0556: 7, H0265: 1 and L0748: 1.		
HTXOU06	852057	6541	329 - 547	16293			H0556: 2 and H0486: 1.		
HTXOU48	869252	6542	2 - 262	16294		Lys-1 to Tyr-11, Thr-13 to Lys-21, Ser-79 to Arg-87.	H0556: 2		
HTXOU67	906909	6543	229 - 414	16295		Pro-22 to Ser-28.	H0556: 2		
HTXOX02	918556	6544	329 - 553	16296		Arg-8 to Arg-14.	H0556: 1 and H0318: 1.		
HTXOX42	920274	6545	209 - 553	16297		Pro-45 to Ser-53.	H0255: 2 and H0556: 1.		
HTXOZ02	918566	6546	95 - 289	16298			H0556: 2		
HTXPF93	954976	6547	2 - 178	16299			AR051: 33, AR054: 28, AR050: 24 H0556: 2		
HTXPJ03	922877	6548	274 - 486	16300			H0556: 1 and H0271: 1.		
HTXPK10	963397	6549	112 - 450	16301		Ser-1 to Thr-13.	H0556: 2 and H0521: 1.		
HTXPK28	957888	6550	55 - 231	16302			H0556: 4 and H0265: 1.		

HTXPO91	869224	6551	114 - 350	16303	Gln-23 to Leu-28, Trp-66 to Gln-74.	H0436: 2 and H0556: 1.	
HTXPO92	869214	6552	330 - 518	16304	Thr-30 to Thr-37.	H0556: 2	
HTXPP33	799925	6553	3 - 635	16305		AR054: 10, AR050: 8, AR051: 2 H0265: 2 and H0556: 1.	
HTXPR92	869221	6554	36 - 320	16306	Arg-15 to Ser-21, Arg-25 to Gly-30, Lys-74 to Lys-81.	H0556: 2	
HTXPT68	870074	6555	2 - 469	16307	Pro-46 to Ser-51.	AR089: 2, AR061: 2 H0556: 2	
HTXPW03	922884	6556	94 - 330	16308		H0265: 1 and H0556: 1.	
HTXPW20	869198	6557	252 - 485	16309	Leu-12 to Glu-24, Lys-52 to Ala-57.	H0556: 2	
HTXPX02	918494	6558	117 - 470	16310	Leu-7 to Gly-17, Thr-20 to Glu-29, Gln-45 to Phe-52, Phe-56 to Tyr-61, Glu-102 to Gln-116.	H0556: 2, H0265: 1 and L0523: 1.	
HTXQA18	869184	6559	375 - 605	16311	Thr-31 to Pro-38, Pro-68 to Gln-73.	S0114: 3 and H0556: 1.	
HTXQC36	961161	6560	337 - 522	16312	Arg-37 to Tyr-44.	H0556: 1 and H0255: 1.	
HTXQC77	974033	6561	444 - 698	16313	Ser-2 to Ser-8.	H0556: 3 and H0265: 1.	
HTXQF10	963403	6562	386 - 541	16314		H0265: 1 and H0556: 1.	
HTXQM11	963645	6563	121 - 303	16315	Thr-5 to Gly-10, Glu-52 to Leu-60.	H0556: 1 and S0053: 1.	
HTXQN24	963503	6564	1 - 447	16316	Pro-6 to Gly-12.	H0556: 2 and L0758: 1.	
HTXQR90	869139	6565	2 - 421	16317	Met-11 to His-26, Ser-62 to Ser-67, Ala-71 to Pro-77.	H0265: 1 and H0556: 1.	
HTXQU07	952030	6566	43 - 189	16318		H0556: 1 and H0543: 1.	
HTXQW02	918081	6567	196 - 459	16319		H0556: 2	
HTXQW29	869134	6568	105 - 386	16320		H0556: 2 and T0041: 1.	
HTXRA11	965596	6569	221 - 397	16321		H0556: 2	
HTXRB38	869133	6570	20 - 193	16322	Gln-1 to Gly-9, Lys-47 to Ser-53.	H0556: 1 and H0486: 1.	

HTXRC17	973981	6571	91 - 330	16323	Gln-7 to Lys-13, Trp-65 to Thr-72.	H0556: 2 and S0218: 1.		
HTXRD51	921285	6572	13 - 219	16324	Pro-11 to Ala-18, Ser-38 to Arg-44, Lys-59 to Pro-68.	H0556: 1 and H0069: 1.		
HTXRE04	926371	6573	3 - 227	16325	Gln-1 to Pro-10, Pro-32 to Arg-50.	H0556: 2		
HTXRJ02	918031	6574	1 - 321	16326	Ser-5 to Ser-15, Gly-73 to Asp-86.	H0556: 1 and H0318: 1.		
HTXRM86	975072	6575	3 - 578	16327		AR061: 2, AR089: 1 H0556: 3		
HTXRO02	918009	6576	99 - 206	16328		H0556: 2		
HTXSB88	914627	6577	541 - 846	16329	Lys-26 to Glu-31, Ala-42 to Tyr-49, Glu-79 to Trp-95.	H0556: 1, H0650: 1 and L0731: 1.		
HTXSK91	915903	6578	298 - 462	16330	Glu-4 to Ser-14, Asp-20 to Leu-25.	H0556: 1 and H0521: 1.	Xp21.1	301220, 302350, 306400, 309470, 309585, 311250, 312040, 312610, 314850
HTXSR92	973095	6579	132 - 428	16331		AR089: 0, AR061: 0 H0265: 1, H0556: 1 and H0083: 1.		
HTYNC52	869119	6580	451 - 251	16332	Leu-21 to Gly-27, Pro-39 to Lys-57.	S0216: 1 and S0452: 1.		
HTYSB62	768350	6581	26 - 250	16333	Val-1 to Ile-8, Glu-64 to Leu-72.	H0116: 2		
HTYSD32	702994	6582	1 - 258	16334		H0581: 1, H0116: 1 and L0746: 1.		
HTZAB04	973811	6583	382 - 648	16335	Thr-1 to Val-7.	S3018: 2 and S0140: 1.		
HUJAB25	878465	6584	3 - 353	16336	Gly-79 to Cys-84.	H0650: 2		
HUJAG07	951873	6585	215 - 3	16337	Tyr-2 to Thr-8, Lys-65 to Lys-71.	L0766: 4, H0318: 3, H0650: 1, L0772: 1 and L0774: 1.		
HUJAM39	911399	6586	631 - 1323	16338	Arg-1 to Trp-7, Arg-14 to Cys-32, Gln-65 to Leu-75.	H0457: 4, H0650: 1, H0656: 1, H0255: 1, H0641: 1 and L0766: 1.		



HUJBL07	951874	6587	1 - 195	16339			H0650: 1 and H0318: 1.		
HUJCB67	958914	6588	2 - 265	16340			H0318: 2, H0650: 1 and H0488: 1.		
HUJCM08	957784	6589	2 - 733	16341		Arg-9 to Trp-15, Ser-36 to Lys-49, Glu-95 to Ala-104, Pro-113 to His-118, Arg-124 to Gly-130, Arg-146 to Asp-153, Arg-159 to Arg-168.	H0585: 2 and H0650: 1.	5p15.33	
HUJCT61	933920	6590	304 - 606	16342		Pro-35 to Pro-40.	H0265: 1, H0556: 1 and H0650: 1.		
HUJCV04	926175	6591	3 - 329	16343		Arg-1 to Met-8.	H0650: 1 and H0580: 1.		
HUJDB08	957786	6592	579 - 773	16344			H0650: 1, H0318: 1 and H0090: 1.		
HUJDI58	920851	6593	12 - 359	16345			S0114: 1 and H0650: 1.		
HUUAJ10	914330	6594	552 - 764	16346		Ser-13 to Arg-20, Glu-23 to His-28.	H0656: 2, L0749: 2, H0657: 1 and H0264: 1.		
HUUAJ82	966685	6595	168 - 650	16347		Cys-14 to His-23, Arg-27 to Arg-45.	H0656: 2 and H0318: 1.		
HUUAJ12	968953	6596	3 - 656	16348		Ser-42 to Pro-47.	H0656: 2 and H0486: 1.		
HUUAJ06	966816	6597	88 - 396	16349		Gly-1 to Ser-9, Arg-19 to Arg-28, Ala-36 to Gly-43, Ser-73 to Pro-78.	H0656: 2, L0748: 1 and L0757: 1.	22q13.2-q13.31	188826, 250100, 250800, 250800
HUUAJ83	921559	6598	80 - 316	16350			H0254: 2 and H0656: 1.		
HUUCI06	933322	6599	115 - 354	16351		Val-39 to Asn-44.	H0656: 1 and S0053: 1.		
HUUCI07	951824	6600	158 - 361	16352			H0656: 2		
HUUCO12	969258	6601	3 - 53	16353			H0656: 2		
HUUCP08	957715	6602	247 - 429	16354			H0656: 2		
HUUCQ03	915269	6603	1 - 585	16355		Thr-40 to Lys-48, Lys-53 to Glu-58, Ser-74 to Ser-80, Phe-82 to Leu-91, Lys-141 to Asp-146, Arg-161 to Asp-167,	H0656: 1, H0581: 1, H0591: 1 and H0521: 1.		

HUUCS49	965987	6604	86 - 502	16356	Asp-177 to Lys-183.	H0656: 2		
HUUDG08	957721	6605	148 - 267	16357	Gln-9 to Thr-16, Pro-36 to Glu-52.	H0656: 1 and H0306: 1.		
HUUDJ10	961717	6606	420 - 524	16358	Asn-18 to Gly-38.	H0656: 2		
HUUDS10	961706	6607	89 - 238	16359		H0650: 1 and H0656: 1.		
HWAAE23	675326	6608	497 - 706	16360		H0265: 1, H0556: 1, S0114: 1, H0581: 1, L0532: 1, L0758: 1 and L0599: 1.		
HWAAE55	719194	6609	98 - 349	16361	Asp-21 to Gly-26, Leu-50 to Ser-57.	H0370: 1 and H0581: 1.		
HWAAE90	778917	6610	87 - 287	16362		H0581: 1 and S0053: 1.		
HWAAF27	721151	6611	2 - 313	16363	Asp-28 to Thr-34.	H0485: 1 and H0581: 1.		
HWAAF66	908541	6612	3 - 320	16364	Arg-1 to Gly-11, Ser-40 to Asp-46.	AR089: 5, AR061: 2 H0583: 1, H0581: 1 and H0083: 1.		
HWAAF81	712203	6613	177 - 34	16365	Lys-6 to Gly-13.	H0581: 1 and H0457: 1.		
HWAAAL31	697716	6614	2 - 550	16366	Gly-8 to Trp-13, Pro-34 to Thr-46, Glu-66 to Pro-79, Ala-85 to Ala-100, Gln-102 to Glu-120, Glu-143 to Gln-156, Ser-168 to Ser-177.	H0581: 1 and H0457: 1.		
HWAAAM04	614973	6615	131 - 295	16367		H0265: 1 and H0581: 1.		
HWAAAM23	675712	6616	136 - 384	16368		H0635: 1, H0581: 1, L0545: 1, L0748: 1 and L0591: 1.		
HWAAAR36	915621	6617	195 - 353	16369	Phe-44 to Gln-53.	H0581: 2 and S0116: 1.		
HWAAAW74	935602	6618	2 - 127	16370	Gln-1 to Gln-7.	H0402: 1 and H0581: 1.		
HWAAAY03	923734	6619	176 - 373	16371		H0581: 1 and H0423: 1.		
HWABAA49	859878	6620	83 - 382	16372	Leu-72 to Phe-79.	H0069: 1 and H0581: 1.		
HWABBB37	870088	6621	2 - 382	16373	Gly-8 to Ala-18, Thr-92 to Thr-100.	H0581: 1 and H0521: 1.		
HWABE67	751418	6622	1 - 150	16374		H0581: 2		
HWABE94	838096	6623	406 - 182	16375	Val-22 to Gly-36, Pro-48 to His-53.	H0581: 2		

HWABF91	698131	6624	64 - 231	16376	Ser-2 to Gly-9.	H0581: 1 and H0422: 1.	
HWABI18	529803	6625	38 - 211	16377		S0114: 1, H0581: 1, H0264: 1 and S0053: 1.	
HWABQ57	734536	6626	3 - 125	16378	Arg-15 to Tyr-21, Pro-30 to Gln-41.	H0581: 2	
HWABS04	494837	6627	15 - 206	16379		H0581: 2, H0625: 1, S0428: 1, H0436: 1 and H0423: 1.	
HWABS51	719221	6628	3 - 209	16380		S0116: 1 and H0581: 1.	
HWABT82	784211	6629	1 - 117	16381	Phe-13 to Cys-18.	H0581: 2	
HWABW02	919441	6630	3 - 212	16382		H0581: 1 and S0052: 1.	
HWABW15	659944	6631	561 - 830	16383		H0581: 1 and H0444: 1.	
HWABW34	703861	6632	120 - 290	16384	Lys-15 to Pro-20.	H0581: 1 and H0487: 1.	
HWABW78	865145	6633	74 - 265	16385	Arg-11 to Cys-16.	H0581: 1 and S0142: 1.	
HWABX49	685187	6634	103 - 345	16386	Ser-14 to Lys-31, Pro-41 to Glu-55, Lys-63 to Glu-72.	H0581: 1 and H0522: 1.	
HWABX68	752825	6635	119 - 262	16387	Leu-1 to Val-14.	S0114: 1 and H0581: 1.	
HWABY12	968857	6636	281 - 577	16388	Asn-8 to Thr-16, Ser-28 to Phe-34, Thr-76 to Gly-85.	H0581: 1 and H0445: 1.	
HWACA38	943074	6637	2 - 577	16389	Asp-81 to Ile-89, Asn-112 to Ser-125, Leu-179 to Ser-189.	AR054: 255, AR050: 206, AR051: 141, H0271: 18, H0556: 9, H0265: 8, H0581: 8, L0761: 4, H0543: 4, H0422: 4, H0656: 3, H0457: 3, L0766: 3, T0002: 2, L0748: 2, H0220: 1, H0650: 1, S0282: 1, H0610: 1, H0069: 1, H0635: 1, H0179: 1, H0416: 1, H0031: 1, H0090: 1, T0041: 1, H0560: 1, H0529: 1, L0667: 1, L0649: 1, L0803: 1, L0659: 1, L0666: 1, S0052: 1, S0216: 1, H0702: 1, H0518: 1, H0521: 1.	

HWACB75	685247	6638	273 - 461	16390	Ile-22 to Asn-32, Gly-36 to Asp-49.	1, L0750: 1, H0445: 1, H0423: 1, H0677: 1 and H0506: 1.		
HWACG21	868530	6639	216 - 1	16391		S0114: 1 and H0581: 1.		
HWACG64	675517	6640	192 - 356	16392	Arg-38 to Ser-47.	H0581: 2		
HWACG68	752710	6641	163 - 351	16393	Arg-41 to Gly-48.	H0581: 2 and L0697: 1.		
HWACG94	670912	6642	185 - 322	16394		H0581: 2		
HWACH33	686740	6643	76 - 264	16395		S0114: 1, H0581: 1 and H0543: 1.		
HWACH49	722572	6644	128 - 349	16396	Pro-8 to Ser-14, Ser-55 to Lys-60.	H0581: 1 and S0052: 1.		
HWACK78	753565	6645	31 - 222	16397	Lys-37 to Ala-43.	H0581: 2		
HWACM17	662307	6646	2 - 148	16398		S0114: 1 and H0581: 1.		
HWACP03	869938	6647	3 - 320	16399		H0581: 1 and H0422: 1.		
HWACQ19	668093	6648	193 - 528	16400		H0581: 1 and H0264: 1.		
HWACR28	685983	6649	212 - 403	16401		H0581: 2		
HWACR77	771777	6650	1 - 117	16402		H0581: 3 and H0580: 1.		
HWACU96	787349	6651	116 - 259	16403		H0581: 2		
HWACV04	927275	6652	177 - 85	16404	Thr-9 to Leu-15.	H0581: 2 and H0436: 1.		
HWACX82	705560	6653	61 - 186	16405		H0581: 1 and S0052: 1.		
HWADA93	647703	6654	236 - 493	16406		H0581: 2, L0439: 2, H0318: 1, L0438: 1 and L0748: 1.		
HWAD38	709487	6655	327 - 446	16407		H0581: 1 and H0421: 1.		
HWADF26	957347	6656	1099 - 506	16408	Ala-45 to Asp-53, Asn-57 to Asp-68, Glu-84 to Cys-92, Asn-97 to Ser-105.	AR050: 78, AR054: 61, AR051: 60, AR061: 2, AR089: 1		
HWADG01	915567	6657	120 - 350	16409	Asn-25 to Gly-30.	H0581: 2, S0114: 1 and L0362: 1.		
HWADG26	680182	6658	226 - 423	16410		S0114: 1 and H0581: 1.		
HWADG27	958200	6659	300 - 605	16411	Gly-20 to Asp-26.	S0218: 1 and H0581: 1.		
HWADI32	698651	6660	154 - 369	16412		H0581: 2		
HWADI53	727820	6661	41 - 298	16413	Ala-1 to Tyr-8,	H0581: 2		

HWADJ29	690074	6662	109 - 285	16414	Asp-33 to Ser-38.	H0402: 1.		
HWADL02	918986	6663	48 - 143	16415	Phe-12 to Thr-17.	H0581: 1 and H0444: 1.		
HWADL36	706697	6664	38 - 292	16416	Pro-11 to Ile-16, Ile-40 to Cys-51, Gly-62 to Tyr-67.	H0581: 2		
HWADM30	868520	6665	97 - 297	16417	Ser-2 to Pro-8, Phe-16 to Cys-22.	H0581: 1 and H0521: 1.		
HWADN19	657528	6666	297 - 109	16418	Leu-33 to Lys-50.	S0114: 1 and H0581: 1.		
HWADN21	670274	6667	203 - 418	16419	Cys-1 to Arg-6.	H0457: 2 and H0581: 1.		
HWADN46	924888	6668	264 - 572	16420		H0250: 1 and H0581: 1.		
HWADO54	729136	6669	253 - 393	16421		H0271: 2 and H0581: 1.		
HWADP26	680211	6670	3 - 635	16422	Pro-20 to Gln-25, Ser-31 to Cys-36, Leu-39 to Ser-52, Val-64 to Ser-73, Ala-89 to Glu-98, Ser-100 to Glu-109, Val-113 to Gln-119, Lys-146 to Pro-151.	H0581: 2 and H0264: 1.		
HWADQ27	682448	6671	444 - 584	16423		S0114: 1 and H0581: 1.		
HWADQ91	693834	6672	212 - 358	16424		H0318: 1 and H0581: 1.		
HWADR47	944042	6673	109 - 252	16425	Leu-1 to Trp-6.	H0581: 2		
HWADS43	675454	6674	12 - 185	16426	Tyr-18 to Cys-27.	S0212: 1 and H0581: 1.	4	
HWADS53	717544	6675	1 - 105	16427	Asp-17 to Asn-23.	H0581: 2, L0790: 1 and S0428: 1.		
HWADV51	916669	6676	3 - 326	16428		H0581: 1 and H0805: 1 and H0521: 1.		
HWADV82	708688	6677	251 - 382	16429		H0581: 1 and H0436: 1.		
HWADW41	722343	6678	2 - 334	16430	Gly-35 to Thr-40.	H0581: 1 and H0271: 1.		
HWADX46	718647	6679	337 - 570	16431	Glu-1 to Pro-9, Pro-37 to Lys-42.	H0581: 1, L0743: 1 and H0543: 1.		
HWADX62	868509	6680	218 - 424	16432	Glu-6 to Ser-14, Thr-39 to Gln-45.	H0265: 1 and H0581: 1.		
HWADY59	738874	6681	2 - 262	16433	Thr-5 to Lys-17.	H0581: 2 and H0583: 1.		
						H0581: 1, H0063: 1, H0436:		

									L, H0444: 1 and L0599: 1.
HWADZ21	670270	6682	2 - 166	16434	Ser-1 to Asn-10.				H0581: 1 and S0142: 1.
HWADZ84	782682	6683	2 - 97	16435					H0581: 2
HWAEA55	731094	6684	28 - 240	16436	Ala-1 to Leu-6.				S0218: 1 and H0581: 1.
HWAEA60	964384	6685	224 - 403	16437	Leu-6 to Gln-15.				H0581: 1 and H0445: 1.
HWAEB19	750811	6686	2 - 154	16438					S0114: 1 and H0581: 1.
HWAEB94	778009	6687	2 - 184	16439	Lys-46 to Glu-60.				H0581: 1 and H0457: 1.
HWAEK75	852921	6688	506 - 709	16440	His-5 to Arg-13, Leu-18 to Leu-23.				H0581: 3, H0318: 2, L0766: 2, L0438: 2, L0439: 2, L0758: 2, H0485: 1, L0451: 1, L0542: 1, L0745: 1 and H0543: 1.
HWAEG01	915064	6689	70 - 168	16441					H0581: 1 and H0444: 1.
HWAEK82	868489	6690	263 - 463	16442					H0581: 2 and H0543: 2.
HWAEN20	868490	6691	119 - 472	16443					H0580: 1, H0581: 1 and L0748: 1.
HWAFD32	850048	6692	43 - 279	16444	Leu-1 to Pro-6, Pro-13 to Glu-18, Gly-51 to Gly-62, Arg-71 to Tyr-79.				H0402: 1 and H0581: 1.
HWAFG08	958173	6693	3 - 149	16445	Asn-23 to His-35.				S0114: 1, H0402: 1 and H0581: 1.
HWAFR09	973926	6694	156 - 341	16446					H0581: 1 and H0090: 1.
HWAFU03	922832	6695	288 - 413	16447					S0134: 1 and H0581: 1.
HWAFW34	926801	6696	6 - 179	16448	Ser-8 to Val-16, Ser-43 to Cys-49.				H0581: 2
HWAFW39	947915	6697	188 - 370	16449					AR089: 2, AR061: 1 H0255: 1 and H0581: 1.
HWAFX39	907631	6698	1 - 369	16450	Asn-36 to Arg-48, His-107 to Tyr-112.				H0581: 1 and H0543: 1.
HWAFY24	868427	6699	113 - 361	16451					H0581: 2
HWAFZ13	873396	6700	74 - 415	16452	Ser-35 to Arg-48, Leu-79 to Asn-88.				H0635: 2, H0581: 1 and H0521: 1.
HWAFZ82	868426	6701	52 - 288	16453	Gly-12 to His-17.				H0581: 2
HWAGC76	941311	6702	52 - 399	16454	Pro-21 to Ala-27, Ala-49 to Ala-56				S0278: 8, S0344: 5, L0740: 3, H0250: 2, H0581: 2

							H0457: 2, S0142: 2, L0774: 2, L0749: 2, S0116: 1, H0031: 1, H0063: 1, S0144: 1, S0002: 1, L0800: 1, L0744: 1, L0777: 1 and H0653: 1.		
HWAGD11	965895	6703	3 - 530	16455		Pro-38 to Lys-44, Arg-64 to Gln-79, Pro-129 to Gly-139, Arg-145 to Pro-151, Pro-154 to Arg-159.	H0581: 1 and H0542: 1.		
HWAGD58	869383	6704	3 - 224	16456		Lys-39 to Pro-47.	H0556: 1, H0581: 1 and L0776: 1.		
HWAGE40	926279	6705	2 - 262	16457		Pro-31 to Phe-36, Gln-39 to Gln-45.	H0250: 2 and H0581: 1.		
HWAGG79	930876	6706	32 - 286	16458		Glu-30 to Leu-48, Cys-53 to Ser-60.	H0581: 1 and H0543: 1.		
HWAGJ49	838759	6707	357 - 536	16459			H0581: 2		
HWAGK95	868403	6708	238 - 441	16460			H0581: 2 and H0264: 1.		
HWAGL53	842011	6709	180 - 422	16461		Gly-37 to Leu-42.	H0581: 1 and H0457: 1.		
HWAGM33	888685	6710	526 - 1140	16462		Ser-68 to Val-74, Pro-87 to Arg-97, Cys-153 to Trp-164, Arg-172 to Cys-178.	AR089: 1, AR061: 0 H0305: 1, H0581: 1, L0745: 1 and L0747: 1.		
HWAGX37	959586	6711	390 - 662	16463		Gly-29 to Ser-35.	H0457: 3, H0581: 1 and H0445: 1.		
HWAGY05	931001	6712	127 - 369	16464			H0264: 2, H0556: 1, H0581: 1 and H0444: 1.		
HWAGZ22	868523	6713	70 - 378	16465		Pro-33 to Phe-41, Phe-52 to Cys-58, Pro-88 to Cys-93.	H0581: 2, H0224: 1 and H0160: 1.		
HWAH110	960646	6714	1344 - 280	16466			H0581: 1 and T0041: 1.		
HWAH594	909667	6715	1 - 471	16467		Pro-52 to Ser-60, Ala-92 to Gly-102.	H0581: 2, H0341: 1, H0521: 1, H0543: 1 and S0452: 1.		
HWAI02	918215	6716	428 - 607	16468			H0581: 2		
HWBAB43	715110	6717	3 - 341	16469		Ile-2 to Asp-8.	H0580: 1 and H0521: 1.		

HWBAB69	582109	6718	2 - 388	16470	Asp-36 to Glu-44, Arg-62 to Leu-67, Arg-74 to Ala-80, Pro-100 to Gly-106. Ser-1 to Thr-16, Lys-27 to Glu-32, Ala-34 to Gly-40, Ala-79 to Gly-88.	H0580: 2, L0748: 1 and S0308: 1.	19q13.3	113900, 126340, 126391, 130410, 134790, 138570, 160900, 173850, 258501, 600040, 602225, 602225
HWBAC22	823086	6719	932 - 657	16471	Met-36 to Tyr-44.	H0580: 1 and H0457: 1.		
HWBAL44	959449	6720	566 - 3	16472	Pro-27 to Thr-32, Pro-42 to Trp-48, Asp-109 to Arg-115, Phe-126 to Asp-136, Thr-145 to Lys-151.	H0580: 2, S0002: 2 and L0779: 2.		
HWBAN54	729329	6721	77 - 217	16473	Glu-16 to Phe-23, Leu-35 to Lys-42.	H0580: 1 and H0444: 1.		
HWBAQ16	868363	6722	767 - 925	16474		H0445: 2, H0580: 1, L0761: 1 and L0697: 1.		
HWBAR44	715963	6723	2 - 187	16475	Ala-47 to Asp-52.	H0580: 2 and L0747: 2.		
HWBAR90	788700	6724	427 - 561	16476	Ser-1 to Lys-6.	H0580: 1 and H0416: 1.		
HWBAS92	960197	6725	321 - 575	16477	Asn-1 to His-10, Ala-40 to Ile-45.	H0305: 2, H0580: 1 and L0518: 1.		
HWBAX06	935032	6726	1 - 117	16478	Gly-9 to Gly-21.	H0580: 1 and H0486: 1.		
HWBAX39	630220	6727	282 - 467	16479	Asp-1 to Cys-6.	H0580: 2		
HWBAZ51	707033	6728	246 - 413	16480	Arg-10 to Ser-15, Lys-34 to Pro-41.	H0580: 1 and H0264: 1.		
HWBBA64	927809	6729	120 - 371	16481	Leu-40 to Lys-45.	H0580: 1 and H0264: 1.		
HWBBA83	775401	6730	365 - 571	16482	Gly-22 to Gly-40, Pro-47 to Asn-54.	H0402: 1 and H0580: 1.		
HWBBB48	559708	6731	32 - 250	16483	Gly-13 to Trp-18, Ile-29 to Thr-35, Ala-42 to Ala-52.	H0580: 2		
HWBBE01	851029	6732	107 - 361	16484		H0580: 1 and H0457: 1.		
HWBBF31	868359	6733	3 - 230	16485		H0580: 1 and H0551: 1.		



HWBBI20	669491	6734	34 - 243	16486	Met-1 to Glu-18.	H0580: 2		
HWBBI54	971547	6735	45 - 200	16487	Glu-38 to Lys-45.	H0580: 1 and H0128: 1.		
HWBBL78	723183	6736	294 - 500	16488	Glu-57 to Glu-64.	L0748: 2, H0580: 1, L0171: 1, L0662: 1, S0052: 1 and H0522: 1.		
HWBBM28	686259	6737	177 - 374	16489		S0116: 1 and H0580: 1.	8q24-qter	
HWBBO46	718858	6738	428 - 571	16490		H0580: 1, L0748: 1 and H0444: 1.		
HWBBQ40	660971	6739	85 - 282	16491		H0254: 1 and H0580: 1.		
HWBBQ86	656704	6740	10 - 228	16492		S0298: 1 and H0580: 1.		
HWBBR65	747723	6741	32 - 232	16493	Gly-1 to Ser-9.	AR089: 28, AR061: 24 L0748: 2, H0580: 1 and H0421: 1.		
HWBBR78	663728	6742	148 - 354	16494	Asn-30 to Gln-39.	H0580: 1 and H0521: 1.		
HWBBV03	868346	6743	109 - 270	16495		H0402: 1 and H0580: 1.		
HWBBV59	682344	6744	232 - 348	16496	Trp-2 to Asp-11.	H0580: 2		
HWBBV83	771349	6745	3 - 257	16497		H0543: 2 and H0580: 1.		
HWBBW11	966665	6746	1 - 231	16498	Leu-10 to Ser-15, Gly-59 to Gly-66, Arg-72 to Cys-77.	H0402: 1, H0580: 1 and L0055: 1.		
HWBBX08	860880	6747	209 - 580	16499		H0580: 1 and H0271: 1.		
HWBBY01	916036	6748	218 - 436	16500	Leu-33 to Ile-40.	L0766: 2, S0134: 1, H0580: 1, L0060: 1 and L0747: 1.		
HWBBY74	711633	6749	239 - 397	16501	Ser-10 to Pro-21.	H0580: 1 and H0087: 1.		
HWBCA14	768667	6750	231 - 368	16502		H0580: 1 and S0002: 1.		
HWBCA22	674236	6751	209 - 472	16503	Lys-47 to Ser-54.	H0580: 2		
HWBCA92	712731	6752	320 - 442	16504	Lys-1 to Leu-7.	H0580: 1 and H0179: 1.		
HWBCC85	784189	6753	188 - 316	16505	His-1 to Lys-21.	H0580: 2		
HWBCC90	744828	6754	67 - 210	16506		H0580: 2		
HWBCF85	738552	6755	155 - 277	16507		H0580: 1 and H0318: 1.		
HWBCG35	707803	6756	3 - 299	16508	Gly-1 to Ser-12, Leu-19 to Arg-26, Pro-40 to Arg-46, Asp-52 to Asn-61, Arg-65 to Lys-71, Lys-76 to Gly-84.	H0580: 1 and H0090: 1.		

HWBCG45	527679	6757	13 - 177	16509	Pro-17 to Asn-31.	H0305: 2, H0580: 1 and H0576: 1.	
HWBCI65	868326	6758	267 - 106	16510	Pro-18 to Lys-41.	H0580: 2	
HWBCN09	868325	6759	141 - 347	16511		H0580: 1 and H0635: 1.	
HWBCN55	715064	6760	63 - 326	16512	Arg-25 to Asn-32.	H0580: 1 and H0581: 1.	
HWBCQ10	964233	6761	195 - 377	16513	Tyr-45 to Lys-51.	H0580: 1, H0581: 1 and L0529: 1.	
HWBCQ29	943720	6762	9 - 251	16514	Pro-14 to Met-22, Lys-25 to Ile-31, Ala-55 to His-65, Thr-74 to Lys-81.	AR089: 1, AR061: 1 H0580: 1, H0416: 1 and H0521: 1.	
HWBCS21	960025	6763	148 - 513	16515	Pro-1 to Lys-12, Pro-30 to Gln-35.	S0114: 1 and H0580: 1.	
HWBCS66	765986	6764	545 - 727	16516	Asp-10 to Gly-18.	H0186: 1 and H0580: 1.	
HWBCU82	955858	6765	176 - 382	16517	His-11 to Pro-19.	H0271: 2 and H0580: 1.	
HWBCW04	925649	6766	302 - 541	16518		H0580: 1 and H0445: 1.	
HWBCW88	882592	6767	283 - 636	16519	Lys-21 to Pro-44, Ser-61 to Arg-67, Asn-70 to His-75.	L0731: 5, L0779: 3, L0777: 2, H0580: 1, S0344: 1, L0768: 1, L0751: 1, L0745: 1, L0747: 1 and L0759: 1.	
HWBCW90	731395	6768	142 - 282	16520	Ser-5 to Asn-10.	H0580: 3	
HWBCY30	828318	6769	3 - 476	16521	His-1 to Asp-20, Pro-52 to Phe-57, Gly-64 to Glu-75.	H0580: 1, H0090: 1, L0662: 1, L0766: 1, L0776: 1, L0792: 1, L0740: 1, L0777: 1 and L0752: 1.	
HWBDL50	724145	6770	301 - 513	16522		H0580: 1, H0581: 1 and H0271: 1.	
HWBDM24	963498	6771	741 - 1040	16523		H0521: 2, H0580: 1 and H0522: 1.	
HWBDP31	697705	6772	136 - 426	16524	Asp-11 to Leu-16, Trp-35 to Leu-41, Arg-54 to Pro-60.	H0580: 2	
HWBDR66	750586	6773	370 - 522	16525		H0580: 2	
HWBDS89	771950	6774	76 - 270	16526	Thr-4 to Leu-29, Tyr-42 to Gly-48.	H0580: 2	
HWBDT15	659939	6775	62 - 184	16527		H0580: 1 and S0052: 1.	

HWBDW71	597259	6776	313 - 438	16528			H0580: 2		
HWBEA72	950702	6777	3 - 203	16529			H0580: 2		
HWBEI17	924913	6778	3 - 182	16530			S0116: 1 and H0580: 1.		
HWBEI53	968493	6779	26 - 118	16531			H0580: 1 and H0271: 1.		
HWBEL53	727617	6780	123 - 287	16532			H0580: 2		
HWBEL70	735390	6781	169 - 456	16533		Asp-1 to Gly-6.	H0580: 2		
HWBEL85	954600	6782	46 - 204	16534			H0580: 2 and H0179: 1.		
HWBEV44	716215	6783	43 - 195	16535		Asn-10 to Gln-15, Glu-31 to Phe-37.	H0580: 2 and L0740: 1.		
HWBEV94	788574	6784	166 - 2	16536		Gly-2 to Pro-12, Gly-48 to Met-54.	H0580: 2		
HWBEX27	682583	6785	1 - 489	16537		Leu-5 to His-12.	AR089: 1, AR061: 0 H0580: 2, L0663: 2, L0662: 1, L0657: 1, L0659: 1, L0666: 1, L0438: 1, L0748: 1 and L0777: 1.	15q15	177070, 177070, 182500, 218000, 227220, 243500, 600839, 601800
HWBEY38	709497	6786	226 - 366	16538			H0580: 1 and H0069: 1.		
HWBEZ47	719940	6787	2 - 160	16539			H0580: 2		
HWBEZ69	664699	6788	127 - 345	16540			H0580: 1, H0264: 1 and H0625: 1.		
HWBEZ90	923008	6789	181 - 336	16541		Asn-9 to Cys-14.	H0580: 2, L0775: 2 and H0521: 2.		
HWBEZ94	856472	6790	188 - 340	16542			H0580: 1, L0521: 1 and H0445: 1.		
HWBFE76	769769	6791	310 - 420	16543		Tyr-1 to Lys-6, Gly-20 to Trp-33.	H0580: 2		
HWBFG09	625162	6792	1 - 195	16544		Pro-13 to Gly-20.	H0580: 2		
HWBFL35	722921	6793	173 - 328	16545		Arg-8 to Arg-22, Asp-28 to Lys-34.	H0580: 2		
HWBFL96	708955	6794	155 - 406	16546		Gln-15 to Glu-22.	H0580: 2		
HWBFM58	735701	6795	1 - 162	16547			H0580: 2		
HWBFM78	773289	6796	117 - 365	16548		Ser-17 to Gly-29, Arg-35 to Ala-42.	H0580: 2		
HWBFN30	691611	6797	188 - 3	16549		Ser-4 to Lys-9.	H0580: 2		
HWBFY69	754729	6798	135 - 257	16550			H0580: 2		

HWBFY88	701904	6799	1 - 111	16551			H0580: 2		
HWBGB08	958611	6800	1 - 84	16552	Thr-16 to Glu-21.		H0580: 1 and H0522: 1.		
HWBGB47	948714	6801	2 - 124	16553			H0580: 2		
HWBGD16	924830	6802	102 - 302	16554			H0580: 1 and H0477: 1.	10q26	176943, 176943, 176943, 176943, 176943, 258870, 263700, 601969, 601969, 602084
HWBGF15	659687	6803	17 - 220	16555			H0265: 1 and H0580: 1.		
HWBGI01	915603	6804	23 - 178	16556			H0580: 1 and H0370: 1.		
HWBGI13	656308	6805	55 - 276	16557	Ser-25 to Ser-30.		H0580: 2		
HWBGI30	691511	6806	105 - 266	16558			H0580: 2		
HWWAZ06	933736	6807	1 - 213	16559			H0318: 3, S0134: 1, S0218: 1, H0657: 1 and L0758: 1.		
HWWDI03	922463	6808	113 - 301	16560	Val-7 to Leu-22, Cys-26 to Met-34, Gly-57 to Ser-63.		H0657: 2, H0255: 1 and H0318: 1.		
HWWEF06	933697	6809	3 - 128	16561	Gln-24 to Ile-30.		H0657: 2, L0770: 1, L0774: 1, L0666: 1, L0439: 1 and L0777: 1.		
HWWEN10	961741	6810	122 - 436	16562	Pro-9 to Ile-14.		H0657: 2, L0532: 1 and L0666: 1.		
HWWEP56	951811	6811	157 - 426	16563			H0657: 2, L0779: 2, L0766: 1 and L0655: 1.		
HWWFA12	968958	6812	151 - 285	16564	Lys-8 to Gly-19, Gly-37 to Arg-45.		H0657: 1, H0318: 1 and H0445: 1.		
HWWFK07	951819	6813	39 - 503	16565	Val-42 to Leu-56.		H0657: 3 and H0521: 1.		
HWWFU42	961739	6814	44 - 247	16566	Pro-17 to His-23.		H0657: 2		
HYAAB66	463413	6815	62 - 325	16567			H0583: 1 and H0422: 1.		
HYAAC60	731763	6816	349 - 552	16568	Leu-22 to Gln-29, Phe-31 to Ala-37.		S0218: 1 and H0583: 1.		
HYAAD03	923797	6817	229 - 336	16569			H0583: 2		
HYAAD67	664597	6818	67 - 180	16570			H0583: 2 and S0052: 1.		
HYAAD95	920280	6819	299 - 625	16571	Lys-14 to Tyr-31, Pro-39 to Phe-45, Trp-86 to Ala-92.		H0318: 7, H0445: 7, L0748: 6, L0766: 4, H0657: 3, L0751: 3, H0423: 3, H0583: 3		

									2, H0477: 2, L0761: 2, L0794: 2, L0758: 2, L0599: 2, S0114: 1, L0785: 1, H0254: 1, H0402: 1, H0486: 1, H0575: 1, H0421: 1, H0264: 1, H0059: 1, L0767: 1, L0768: 1 and L0655: 1.		
HYAAF33	915050	6820	136 - 396	16572		Ser-50 to Thr-58, Thr-64 to Gly-72.	H0583: 1, L0766: 1 and H0522: 1.				
HYAAH26	681251	6821	99 - 224	16573		Asn-19 to Tyr-28.	H0583: 1 and H0318: 1.				
HYAAH36	947242	6822	47 - 241	16574		Arg-44 to Cys-50.	H0583: 2				
HYAAI55	674591	6823	19 - 141	16575			L0748: 2, S0114: 1 and H0583: 1.				
HYAAI67	706512	6824	233 - 3	16576		His-2 to Trp-7, Glu-37 to Asn-43.	H0583: 1 and H0305: 1.				
HYAAJ36	744792	6825	1 - 414	16577		Ala-1 to Gly-6.	H0583: 1, H0521: 1, L0779: 1 and L0758: 1.				
HYAAJ89	678728	6826	137 - 283	16578			H0583: 1 and H0179: 1.				
HYAAN31	697590	6827	2 - 181	16579		Gly-20 to Trp-33.	H0583: 2				
HYAAO39	599000	6828	242 - 412	16580			H0583: 1 and S0002: 1.				
HYAAR17	662426	6829	2 - 223	16581			H0583: 2				
HYAAR95	862585	6830	252 - 536	16582		Ile-20 to Lys-25.	H0583: 1, S0002: 1, L0766: 1 and H0423: 1.				
HYAAS08	926017	6831	1 - 312	16583		Arg-1 to Phe-18, Pro-38 to Phe-43.	H0583: 1 and H0341: 1.				
HYAAT50	724047	6832	42 - 413	16584		Ile-3 to Ala-11, Arg-25 to Leu-32, Ser-40 to Cys-47, Leu-101 to Lys-111.	S0134: 1 and H0583: 1.				
HYAAU42	890595	6833	2 - 424	16585		Ser-37 to His-43, Val-45 to Trp-60, Lys-106 to Ser-113.	H0583: 1, L0539: 1 and H0271: 1.				
HYAAU88	786666	6834	125 - 430	16586		His-1 to Glu-8, Asp-14 to Cys-21.	S0218: 1, H0583: 1 and S0216: 1.				
HYAAX05	934878	6835	23 - 190	16587			H0583: 2				
HYAAX17	662439	6836	3 - 140	16588			H0583: 2				

HYAAX65	630213	6837	2 - 217	16589	Gly-1 to Trp-13.	H0583: 2		
HYAAY36	766694	6838	110 - 412	16590	Pro-1 to His-11, Ser-52 to Ala-60.	H0556: 6, S0144: 5, H0255: 22q13.1 4, L0766: 4, L0757: 4, H0650: 3, S0278: 3, H0486: 3, S0344: 3, S0426: 3, L0655: 3, L0747: 3, L0749: 3, H0543: 3, S0134: 2, L0785: 2, H0069: 2, H0318: 2, H0179: 2, L0748: 2, L0756: 2, T0002: 1, H0583: 1, S0116: 1, H0402: 1, H0638: 1, S0358: 1, S0140: 1, H0025: 1, H0575: 1, H0581: 1, H0510: 1, H0271: 1, H0063: 1, H0087: 1, L0381: 1, L0378: 1, L0657: 1, L0659: 1, L0542: 1, L0383: 1, H0521: 1, H0436: 1, S0027: 1, L0744: 1, L0779: 1, L0731: 1, H0445: 1, L0601: 1, H0422: 1 and H0677: 1.	103050, 103050, 124030, 124030, 138981, 182380, 188826, 190040, 190040, 190040	
HYABB23	675659	6839	302 - 448	16591		L0754: 3, L0803: 2, L0517: 2q12 2, L0362: 2, H0583: 1, L0773: 1, L0662: 1, H0521: 1 and L0780: 1.	129490, 167415, 176947	
HYABB40	799572	6840	288 - 545	16592	Phe-20 to Ser-29.	L0766: 2, L0747: 2, L0779: 2, L0777: 2, L0755: 2, H0583: 1, S0116: 1, L0800: 1, L0644: 1, L0626: 1, L0375: 1, L0776: 1, L0792: 1, L0663: 1, L0748: 1, L0758: 1, L0593: 1 and H0423: 1.		
HYABB96	692653	6841	3 - 170	16593	Ser-1 to Cys-14, Arg-20 to Lys-31, Leu-34 to Thr-46.	H0583: 1 and H0521: 1.	8	

HYABC02	919212	6842	3 - 179	16594	Tyr-1 to Thr-10, Thr-15 to Cys-21, Glu-29 to Trp-34.	H0583: 2		
HYABC58	924677	6843	92 - 202	16595	Asn-1 to Tyr-9.	H0583: 1 and H0063: 1.		
HYABE67	822985	6844	94 - 315	16596	Arg-11 to His-21, Tyr-46 to Gly-54.	H0583: 3 and L0754: 1.		
HYABE85	697593	6845	447 - 635	16597		H0583: 2, L0764: 1 and L0439: 1.		
HYABG22	811950	6846	3 - 146	16598		H0583: 2		
HYABL55	678864	6847	2 - 418	16599	Thr-12 to Thr-28, Glu-30 to Ala-36, Gly-40 to Arg-48, Ala-61 to Trp-75, Arg-94 to Gln-101, Thr-112 to Asp-117.	H0583: 1 and S0052: 1.		
HYABP53	971448	6848	26 - 637	16600	His-1 to Gly-12, His-33 to Gly-44, Thr-124 to Gly-137, Thr-153 to Thr-158, Arg-188 to Gly-193.	AR054: 47, AR051: 42, AR050: 39, AR089: 1, AR061: 1 H0583: 1 and H0656: 1.		
HYABV14	956236	6849	121 - 588	16601	His-1 to Trp-12, Arg-40 to Ala-45, Pro-50 to His-60, Asn-70 to Arg-76.	H0521: 4, L0766: 3, H0583: 1, H0581: 1, H0522: 1 and H0543: 1.		
HYACG89	724923	6850	231 - 512	16602		S0114: 1, L0002: 1 and H0583: 1.		
HYACI15	674268	6851	149 - 277	16603	Ser-21 to Gly-26.	H0583: 1 and H0576: 1.		
HYACI18	665720	6852	122 - 292	16604	His-25 to Lys-32.	H0583: 1, S0002: 1 and L0748: 1.		
HYACI64	929756	6853	299 - 523	16605	Ser-28 to Pro-33.	H0583: 1 and H0423: 1.		
HYACI95	746317	6854	3 - 284	16606	Gly-1 to His-10, Pro-13 to Arg-21, His-39 to Cys-53, Ser-79 to Lys-92.	H0583: 2		
HYACI53	727948	6855	214 - 375	16607	Gln-1 to Ser-6.	L0748: 4 and H0583: 1.		
HYACF71	760102	6856	275 - 565	16608	Pro-27 to Arg-38.	L0439: 2 and H0583: 1.		

HYACE11	966482	6857	74 - 229	16609	Gly-1 to Gly-7, Gln-36 to Leu-45.	H0583: 1 and L0517: 1.		
HYACD06	974495	6858	145 - 384	16610	Leu-10 to Tyr-28, Arg-39 to Lys-44.	H0583: 1		
HYACC03	923525	6859	199 - 462	16611	Pro-24 to Ser-29, Ser-45 to Glu-50.	H0583: 1 and L0589: 1.		
HYABB43	800006	6860	368 - 21	16612	Lys-16 to Arg-21, Ser-44 to Arg-52.	AR050: 136, AR054: 109, AR051: 95, AR089: 1, AR061: 1 L0805: 2, H0583: 1, L0764: 1, L0375: 1, L0776: 1, L0740: 1, L0731: 1 and L0759: 1.		
HYAAY57	734463	6861	347 - 430	16613		H0583: 1 and L0439: 1.		
HYAAV45	717479	6862	360 - 542	16614	Ala-18 to Glu-26.	H0583: 1 and L0749: 1.		
HYAAU65	909956	6863	2 - 580	16615	Gln-68 to Ser-78, Thr-93 to Ser-101, Pro-119 to Ala-130.	AR089: 2, AR061: 1 L0748: 2 and H0583: 1.		
HYAAT55	731420	6864	3 - 233	16616		H0583: 1 and L0748: 1.		
HYAAT39	929758	6865	392 - 186	16617		L0754: 2 and H0583: 1.		
HYAAN84	782838	6866	164 - 364	16618	Ser-30 to Arg-39.	H0583: 1, L0759: 1 and L0589: 1.		
HYAAL49	973089	6867	115 - 300	16619	Val-13 to Gln-19, His-35 to Gly-42.	H0583: 1		
HYAAL41	887395	6868	3 - 257	16620		AR050: 73, AR054: 55, AR051: 52 H0583: 1		
HYAAL19	668338	6869	517 - 738	16621	Met-15 to Asn-21, Ser-36 to Ser-41.	L0439: 4, L0756: 2, L0594: 2, H0583: 1, L0766: 1, L0438: 1, L0779: 1 and L0758: 1.		
HYAAK77	887044	6870	212 - 727	16622		AR054: 69, AR050: 62, AR051: 57 H0583: 1 and L0745: 1.		
HYAAK74	765252	6871	1 - 177	16623	Cys-1 to Arg-12.	H0583: 1, L0748: 1 and L0749: 1.		



HYAAJ03	923526	6872	148 - 279	16624	Glu-26 to Cys-31.	H0583: 1 and L0777: 1.	
HYAAF78	773433	6873	1 - 219	16625	Arg-17 to Asn-23, Ser-43 to Ile-48.	H0583: 1, L0748: 1 and L0754: 1.	
HYAAD24	677019	6874	2 - 157	16626		H0583: 1 and L0748: 1.	
HYAAC24	677010	6875	186 - 389	16627	Glu-21 to Tyr-31, Lys-58 to Lys-64.	H0583: 1 and L0362: 1.	
HYAAB40	841969	6876	268 - 510	16628	Ile-15 to Ser-20.	H0583: 1 and L0717: 1.	
HWWEW11	965434	6877	298 - 471	16629	Gly-1 to Gly-29.	H0657: 1 and L0664: 1.	
HWWE11	965426	6878	204 - 374	16630	Ser-1 to Leu-8.	H0657: 1 and L0367: 1.	
HWWEC06	933690	6879	85 - 234	16631	Ser-33 to Gly-43.	L0766: 2, H0657: 1 and L0749: 1.	
HWBGG82	779081	6880	377 - 538	16632		H0580: 1, L0745: 1 and L0600: 1.	
HWBGF04	927284	6881	1 - 489	16633		H0580: 1 and L0750: 1.	
HWBFY46	800638	6882	1 - 270	16634	Arg-5 to Arg-14.	AR054: 2, AR050: 2, AR051: 1 H0580: 1	
HWBEG18	909798	6883	55 - 696	16635	Trp-46 to Lys-51, Pro-109 to Asn-123, Phe-156 to Gly-165.	AR089: 82, AR061: 18 H0580: 1	
HWBEF69	754328	6884	324 - 229	16636		H0580: 1 and L0748: 1.	
HWBEE25	677660	6885	534 - 316	16637		H0580: 1 and L0742: 1.	
HWBEA06	934820	6886	31 - 237	16638	Gln-26 to Ser-31, Pro-34 to Gln-40.	H0580: 1 and L0766: 1.	
HWBDU71	835888	6887	418 - 531	16639		H0580: 1 and L0523: 1.	
HWBDU58	735774	6888	490 - 257	16640	Ser-18 to Asn-23, Thr-30 to Thr-41, Pro-63 to Arg-75.	L0439: 3 and H0580: 1.	
HWBDS59	743462	6889	274 - 447	16641	Pro-11 to Thr-20.	L0749: 2, H0580: 1 and L0747: 1.	22q11.2-qter
HWBDS12	971872	6890	3 - 200	16642	Ile-17 to Glu-37.	H0580: 1, L0775: 1 and L0755: 1.	
HWBDR82	779002	6891	153 - 437	16643	Phe-1 to Arg-13, Ser-21 to Gln-32.	H0580: 1 and L0748: 1.	
HWBDQ58	735769	6892	553 - 744	16644		L0748: 2 and H0580: 1.	
HWBDL82	728805	6893	26 - 355	16645	Pro-64 to Ile-75.	L0439: 2 and H0580: 1.	

							Glu-77 to Asp-88, Leu-101 to Gly-110.				
HWBDK08	958956	6894	247 - 369	16646			Pro-15 to Gly-22.			H0580: 1, L0665: 1 and L0599: 1.	
HWBCV48	721010	6895	136 - 408	16647			Gly-7 to Ser-13, Pro-36 to Phe-46.			H0580: 1 and L0766: 1.	
HWBCU06	935028	6896	240 - 464	16648			Glu-1 to Pro-11.			H0580: 1 and L0143: 1.	
HWBCS08	909031	6897	2 - 562	16649			Cys-1 to Arg-6, Asp-18 to Ser-30, Cys-37 to Ser-42, Arg-64 to Lys-69, Arg-74 to Val-79, Asp-109 to Asp-115, Val-161 to Lys-166.			AR089: 4, AR061: 1 H0580: 1, L0809: 1 and L0604: 1.	
HWBCH41	868342	6898	175 - 363	16650						H0580: 1, L0766: 1 and L0748: 1.	
HWBCD20	669472	6899	143 - 418	16651			Arg-3 to Ser-17, Pro-33 to Ala-41.			H0580: 1 and L0439: 1.	
HWBCA08	958957	6900	1 - 222	16652			Cys-3 to Ser-10.			L0619: 1 and H0580: 1.	
HWBBY86	637734	6901	198 - 503	16653			Ser-8 to Gly-13, Pro-33 to Ser-39, Asn-96 to Gln-102.			AR051: 12, AR054: 7, AR050: 3 H0580: 1	
	785151	9611	362 - 3	19363			Ser-8 to Gly-13, Pro-33 to Ser-39, Asn-96 to Lys-101.				
HWBBV52	726509	6902	78 - 218	16654			Leu-9 to Met-17.			H0580: 1, L0740: 1 and L0599: 1.	
HWBBU10	964237	6903	8 - 298	16655			Pro-24 to Cys-42, Arg-66 to Pro-71.			L0004: 1, H0580: 1 and L0606: 1.	
HWBBT71	760176	6904	247 - 381	16656			His-2 to Gly-8.			H0580: 1 and L0756: 1.	
HWBBR45	887686	6905	75 - 239	16657			Leu-4 to Asp-15.			AR054: 240, AR050: 238, AR051: 165 H0580: 1	
HWBBQ22	861613	6906	2 - 214	16658			Tyr-17 to Cys-22.			H0580: 1 and L0766: 1.	
HWBBN86	785313	6907	385 - 528	16659						L0748: 3 and H0580: 1.	
HWBBM02	919423	6908	3 - 116	16660						H0580: 1 and L0376: 1.	

HWBBL57	868349	6909	204 - 428	16661			H0580: 1 and L0763: 1.		
HWBBL03	923691	6910	50 - 217	16662	Asn-32 to Thr-39, Gly-46 to Phe-56.		H0580: 1, L0369: 1 and L0517: 1.		
HWBBF60	740125	6911	3 - 257	16663			H0580: 1 and L0754: 1.		
HWBBE52	868338	6912	150 - 365	16664	Arg-19 to Asn-33, Leu-52 to Trp-66.		AR054: 7, AR051: 4, AR050: 2 L0748: 2, H0580: 1, L0772: 1, L0771: 1, L0774: 1, L0776: 1 and L0758: 1.		
HWBBD23	675360	6913	1 - 276	16665	Arg-1 to Gly-8.		H0580: 1 and L0602: 1.		
HWBAX77	771958	6914	126 - 521	16666	Gly-7 to Leu-12, Ser-60 to Cys-66.		H0580: 1 and L0754: 1.		
HWBAT83	780976	6915	1 - 426	16667			H0580: 1 and L0745: 1.		
HWBAS96	796126	6916	1 - 186	16668	Ser-18 to Thr-23.		H0580: 1 and L0748: 1.		
HWBAR29	690422	6917	51 - 302	16669	Lys-15 to Ala-23, Ala-26 to Leu-34, Gly-46 to Cys-56.		H0580: 1 and L0740: 1.		
HWBAQ71	944080	6918	3 - 470	16670	Thr-1 to Ala-11, Thr-24 to Arg-29.		AR089: 3, AR061: 1 H0580: 1 and L0601: 1.		
HWBAQ02	919351	6919	102 - 311	16671	Cys-5 to Gln-13, Asn-24 to Arg-29.		L0779: 2 and H0580: 1.		
HWBAO50	724135	6920	202 - 402	16672	Leu-39 to Thr-44.		L0766: 2 and H0580: 1.		
HWBAO38	709490	6921	195 - 368	16673			L0748: 2 and H0580: 1.		
HWBAK65	747731	6922	277 - 140	16674	Thr-12 to Gly-19.		L0439: 3 and H0580: 1.		
HWBAJ13	975117	6923	1649 - 1440	16675			AR061: 2, AR089: 2 H0580: 1		
HWBAH72	766073	6924	227 - 469	16676			L0439: 2 and H0580: 1.		
HWBAH16	661664	6925	3 - 269	16677	Gln-9 to Asn-14.		H0580: 1, L0748: 1 and L0749: 1.		
HWBAF43	715111	6926	329 - 550	16678	Ser-27 to Arg-33, Thr-61 to Pro-67.		H0580: 1 and L0748: 1.		
HWBAF09	625401	6927	108 - 278	16679			H0580: 1 and L0766: 1.		
HWBAC02	919559	6928	1 - 135	16680	Gln-6 to Asp-21.		H0580: 1 and L0731: 1.		
HWAGV04	926759	6929	69 - 371	16681	Gly-3 to Cys-10, Leu-29 to His-34.		H0581: 1 and L0589: 1.		
HWAGQ02	953013	6930	550 - 185	16682	Cys-31 to Tyr-37.		L0766: 3, L0748: 2, L0785:		

					Lys-90 to Ser-99, Ser-102 to His-109, Gln-112 to Trp-121.			1, H0581: 1, L0763: 1, L0774: 1, L0775: 1, L0375: 1, L0806: 1, L0776: 1, L0749: 1, L0779: 1, L0752: 1, L0758: 1 and L0599: 1.		
HWAGO42	958373	6931	1 - 489	16683	Pro-24 to Val-31.			H0581: 1 and L0800: 1.		
HWAFQ10	961339	6932	733 - 930	16684				L0766: 2 and H0581: 1.		
HWAFM60	868436	6933	1 - 315	16685	Asp-7 to Asn-17, Arg-40 to His-47, Pro-80 to Cys-91.			H0581: 1 and L0766: 1.		
HWAFG12	969605	6934	70 - 417	16686	Ala-1 to Gly-10, Arg-33 to Thr-39, Phe-41 to Gly-50, Asp-59 to Gly-66, Arg-73 to Ser-80.			H0581: 1 and L0655: 1.		
HWAFE87	949950	6935	121 - 420	16687	Gly-7 to Asp-12, Glu-31 to Ser-43, Val-76 to Ser-86.			AR089: 1, AR061: 1 H0581: 1		
HWAFD56	868452	6936	98 - 217	16688	Asp-8 to Cys-15.			H0581: 1 and L0758: 1.		
HWAFD10	963323	6937	3 - 131	16689				H0581: 1 and L0662: 1.		
HWAF47	948858	6938	110 - 358	16690	Ser-16 to Ile-22.			AR089: 4, AR061: 1 H0581: 1		
HWAF405	930990	6939	290 - 544	16691	Gln-1 to Arg-11, Pro-33 to Arg-41, Thr-46 to Gly-52, Arg-54 to Cys-75.			L0751: 2, H0581: 1, L0794: 1 and L0752: 1.		
HWAEZ81	868460	6940	496 - 257	16692	Gln-1 to Lys-8.			H0581: 1		
HWAEZ19	874351	6941	121 - 519	16693	Ser-1 to Ile-7, Phe-27 to Lys-44.			H0581: 1		
HWAEU35	887166	6942	1 - 474	16694	Arg-22 to Arg-36.			AR051: 268, AR054: 153, AR050: 68, AR089: 54, AR061: 9 H0581: 1		
HWAEI10	838763	6943	102 - 275	16695	Glu-52 to Lys-58.			H0581: 1 and L0766: 1.		
HWAEI25	951965	6944	2 - 793	16696	Asn-11 to His-19, Glu-31 to Val-37			H0581: 1 and L0593: 1.		

						Thr-65 to Ser-74, Lys-177 to Thr-182, Gly-187 to Asp-199.			
HWAEK27	868494	6945	357 - 578		16697	Asn-1 to Lys-6, Gly-18 to Glu-28, Ser-53 to Thr-58.		H0581: 1 and L0589: 1.	
HWAEG71	931547	6946	2 - 553		16698	Gln-60 to Ala-68, Trp-132 to Ser-138, Lys-156 to Val-163.		AR089: 6, AR061: 1 L0740: 2 and H0581: 1.	
HWAEK08	958115	6947	3 - 716		16699	Leu-32 to Pro-38, Leu-124 to Ala-135.		AR061: 0, AR089: 0 H0581: 1, L0803: 1, L0664: 1, L0439: 1 and L0751: 1.	
HWADQ35	868526	6948	824 - 630		16700			L0759: 4, H0581: 1, L0055: 1, L0773: 1 and L0777: 1.	
HWADO27	682458	6949	222 - 380		16701	Lys-45 to Ser-53.		H0581: 1, L0748: 1 and L0754: 1.	
HWADN42	713272	6950	188 - 391		16702	Ser-10 to Gln-18.		H0581: 1, L0661: 1 and L0750: 1.	
HWADM84	782685	6951	209 - 373		16703			H0581: 1 and L0439: 1.	
HWADI46	891149	6952	2 - 265		16704	Gly-31 to Lys-43.		AR050: 65, AR054: 52, AR051: 41 H0581: 1	
HWADE25	677594	6953	314 - 427		16705			L0748: 2 and H0581: 1.	
HWADD18	665173	6954	83 - 349		16706			L0794: 2, L0665: 2, H0581: 1, L0438: 1, L0439: 1, L0749: 1, L0757: 1 and L0758: 1.	
HWACZ56	733002	6955	3 - 326		16707			H0581: 1 and L0596: 1.	
HWACY70	756888	6956	190 - 552		16708	Glu-1 to Lys-31, Ser-56 to Arg-61.		AR089: 6, AR061: 2 H0581: 1 and L0608: 1.	
HWACS69	774914	6957	391 - 552		16709			H0581: 1 and L0731: 1.	
HWACQ54	729166	6958	80 - 208		16710			H0581: 1 and L0745: 1.	
HWACI56	733013	6959	205 - 414		16711	Pro-16 to Ile-23.		H0581: 1 and L0748: 1.	
HWACI46	718711	6960	383 - 538		16712			H0581: 1, L0748: 1 and L0581: 1.	
HWACH03	923374	6961	177 - 350		16713	Gly-41 to Ser-46.		H0581: 1, L0748: 1 and	

HWACD30	691565	6962	34 - 249	16714	Pro-5 to Arg-19.	L0749: 1.					
HWABY68	927387	6963	2 - 382	16715		L0747: 3 and H0581: 1. L0777: 2 and H0581: 1.	19q13.3			113900, 126340, 126391, 130410, 134790, 138570, 160900, 173850, 258501, 600040, 602225, 602225	
HWABV67	751409	6964	145 - 294	16716		H0581: 1 and L0748: 1.					
HWABV34	868535	6965	107 - 280	16717		H0581: 1 and L0747: 1.					
HWABP20	669486	6966	160 - 384	16718	Lys-21 to Arg-27, Ala-29 to Ala-35.	L0748: 2 and H0581: 1.					
HWABP19	951277	6967	33 - 254	16719		H0581: 1 and L0764: 1.					
HWABP02	919442	6968	322 - 423	16720		L0766: 2, H0581: 1 and L0746: 1.					
HWABI13	656767	6969	360 - 602	16721		L0766: 2 and H0581: 1.					
HWABH68	929275	6970	3 - 212	16722		H0581: 1 and L0646: 1.					
HWABG11	949088	6971	1 - 486	16723	Phe-13 to Ile-19.	AR089: 8, AR061: 2 H0581: 1					
HWABD52	726510	6972	4 - 207	16724		L0777: 2 and H0581: 1.					
HWAAAY79	791452	6973	45 - 329	16725	Thr-32 to His-38, Thr-46 to Asn-55.	H0581: 1 and L0598: 1.					
HWAAAY51	973237	6974	48 - 185	16726	Arg-18 to Asn-26.	H0581: 1					
HWAAAX48	721442	6975	144 - 377	16727	Pro-10 to Ser-22, Gly-57 to Cys-62.	H0581: 1, L0805: 1, L0776: 1, L0791: 1, L0663: 1 and L0439: 1.					
HWAAW65	779578	6976	594 - 809	16728	Gly-1 to Arg-14, Leu-32 to Gly-37, Pro-41 to Gly-46.	H0581: 1 and L0748: 1.					
HWAAQ76	887772	6977	3 - 590	16729	His-3 to Ile-9, Leu-13 to Leu-20, Ala-47 to Ser-54, Asn-86 to Pro-93.	AR050: 94, AR051: 77, AR054: 68 L0758: 2, H0581: 1 and L0779: 1.					
HWAAAM30	691878	6978	106 - 336	16730	Asn-36 to Glu-42, Pro-53 to Asp-58.	H0581: 1 and L0731: 1.					
HWAAAL70	757035	6979	3 - 443	16731		H0581: 1 and L0741: 1.					

HWAAI41	712141	6980	117 - 383	16732	Arg-18 to Phe-32.	H0581: 1 and L0748: 1.		
HWAAF60	751037	6981	2 - 226	16733		H0581: 1 and L0759: 1.		
HWAAE31	841973	6982	105 - 248	16734	Arg-1 to Phe-9, Arg-23 to Gly-31.	H0581: 1, L0766: 1 and L0599: 1.		
HWAAAB06	935131	6983	181 - 429	16735	Ser-4 to Ala-12, His-21 to Leu-27, Pro-30 to Glu-35.	L0452: 1 and H0581: 1.		
HUUDR34	944903	6984	2 - 658	16736	Lys-6 to Met-14, Lys-60 to Leu-65, Asp-71 to Lys-76, Arg-78 to Ser-88, Pro-96 to His-101, Glu-109 to Glu-123, Thr-138 to Ala-144, Arg-173 to Asp-180.	L0462: 2, H0656: 1 and L0617: 1.	22q13.1	103050, 103050, 124030, 124030, 138981, 182380, 188826, 190040, 190040, 190040
HUUCS12	969325	6985	403 - 687	16737	Ser-6 to Pro-13.	L0748: 3 and H0656: 1.		
HUUCJ02	940813	6986	594 - 121	16738	Gly-11 to Ile-17, Gln-57 to Gly-64.	H0656: 1 and L0163: 1.		
HUUDJ03	922441	6987	189 - 578	16739	Arg-54 to Ser-61, Pro-79 to Ser-90.	L0523: 2 and H0650: 1.		
HUJDE05	967231	6988	21 - 569	16740	Lys-2 to Ile-11, Asp-76 to Gly-83.	H0650: 1 and L0758: 1.	5q31.1	131400, 147061, 147575, 147575, 147575, 153455, 159000, 181460, 600807, 601596, 602089
HUJCN12	969331	6989	316 - 465	16741		H0650: 1 and L0142: 1.		
HUJBQ04	926196	6990	1 - 120	16742		H0650: 1		
HUJBP01	914512	6991	1 - 330	16743		H0650: 1		
HTYSK94	501001	6992	19 - 285	16744	Arg-28 to Gly-36, Pro-73 to Tyr-80.	H0116: 1		
HTYSK65	500999	6993	126 - 338	16745	His-45 to Tyr-50.	H0116: 1		
HTYSK23	575458	6994	112 - 258	16746		H0116: 1		
HTYND11	965061	6995	93 - 311	16747		L0748: 1 and S0452: 1.		
HTYNC04	926906	6996	167 - 66	16748	Leu-16 to Asn-31.	L0021: 1, L0779: 1 and S0452: 1.		

HTYAA83	537277	6997	424 - 185	16749	Ala-4 to Gly-13.	H0058: 1	
HTXSV06	933377	6998	267 - 461	16750	Gln-20 to Gln-26.	H0556: 1 and L0367: 1.	
HTXSH08	957886	6999	266 - 463	16751		L0749: 4, L0748: 2, L0777: 2, H0556: 1 and L0471: 1.	
HTXSC11	965536	7000	168 - 416	16752	Lys-28 to Met-34, Glu-40 to Ile-45.	H0556: 1	
HTXSA04	926338	7001	174 - 413	16753		H0556: 1, L0783: 1 and L0809: 1.	
HTXRS08	957919	7002	1 - 183	16754	Pro-8 to Arg-19.	H0556: 1 and L0366: 1.	
HTXRA02	918089	7003	2 - 205	16755	Pro-7 to Gly-17.	H0556: 1, L0748: 1 and L0780: 1.	
HTXQS11	965084	7004	1 - 447	16756	Val-20 to Ser-37, Asp-110 to Arg-125.	H0556: 1, L0643: 1 and L0749: 1.	
HTXQO07	952064	7005	1 - 231	16757		H0556: 1 and L0749: 1.	
HTXQM71	869147	7006	192 - 425	16758	Leu-50 to Ile-55.	H0556: 1 and L0766: 1.	
HTXQM07	952067	7007	311 - 445	16759		H0556: 1 and L0805: 1.	
HTXPX72	916162	7008	132 - 458	16760		H0556: 1 and L0748: 1.	
HTXPV03	922905	7009	416 - 664	16761		H0556: 1 and L0745: 1.	
HTXOR95	869249	7010	380 - 592	16762		H0556: 1 and L0748: 1.	
HTXOO15	869261	7011	55 - 273	16763	Pro-49 to Thr-55.	AR089: 1, AR061: 0	
						H0556: 1 and L0752: 1.	
HTXOO12	872368	7012	30 - 395	16764		H0556: 1 and L0761: 1.	12
HTXOK51	869265	7013	147 - 527	16765	Ser-76 to Gly-82, Gly-89 to Thr-97.	L0362: 2 and H0556: 1.	
HTXNJ60	869299	7014	354 - 677	16766	Pro-42 to Arg-47.	H0556: 1 and L0766: 1.	
HTXNG04	926992	7015	48 - 557	16767	Pro-20 to Ala-25, Lys-53 to Arg-63, Pro-80 to Gly-89, Ser-139 to Asp-156.	L0749: 5, L0748: 3 and H0556: 1.	
HTXNF11	869300	7016	309 - 593	16768		H0556: 1 and L0748: 1.	
HTXNA19	953848	7017	562 - 792	16769		H0556: 1 and L0439: 1.	
HTXNMZ01	915250	7018	107 - 223	16770		H0556: 1 and L0562: 1.	
HTXMU37	948611	7019	1 - 204	16771		L0748: 2 and H0556: 1.	
HTXMR30	869312	7020	332 - 577	16772		L0758: 2 and H0556: 1.	
HTXMJ82	841875	7021	2 - 424	16773	Arg-15 to Ser-22,	H0556: 1 and L0596: 1.	



						Ala-30 to Leu-37, Pro-44 to Lys-51, Leu-53 to Arg-65, Pro-123 to Trp-132.					
HTXMC72	875290	7022	127 - 399	16774						H0556: 1 and L0748: 1.	
HTXLS08	958357	7023	1 - 1152	16775		Asp-1 to Gly-8, Leu-14 to Ser-20.				L0766: 9, L0761: 8, L0779: 3, L0809: 2, L0752: 2, H0556: 1, L0772: 1, L0794: 1 and L0745: 1.	
HTXLN70	756630	7024	409 - 663	16776						H0556: 1 and L0748: 1.	
HTXLI10	963602	7025	235 - 471	16777						H0556: 1 and L0794: 1.	
HTXKCP30	487401	7026	138 - 335	16778						H0556: 1	
	494070	9612	164 - 3	19364		Asp-13 to Phe-19, Arg-46 to Leu-54.					
HTXKN65	869345	7027	71 - 241	16779		Met-1 to Asn-8, Gln-19 to Ser-24.				H0556: 1 and L0369: 1.	
HTXKM37	869347	7028	24 - 236	16780		Lys-8 to Pro-19.				H0556: 1 and L0768: 1.	
HTXKM24	677101	7029	117 - 284	16781		Lys-6 to Thr-11.				H0556: 1 and L0748: 1.	
HTXKK96	796330	7030	321 - 515	16782		Gly-51 to Pro-65.				H0556: 1 and L0596: 1.	
HTXKK31	697838	7031	208 - 447	16783		Ser-74 to Ile-80.				H0556: 1 and L0756: 1.	
HTXKF02	919683	7032	3 - 251	16784		Leu-2 to Ser-14, Ser-26 to Ala-34, Pro-43 to Gly-49.			11p15.5	H0556: 1, L0743: 1 and L0744: 1.	125852, 126452, 126452, 141900, 141900, 141900, 141900, 141900, 141900, 142000, 142000, 142200, 142250, 142270, 176730, 176730, 176730, 190020, 191290, 192500, 192500, 194071, 194071, 204500, 600856, 601680, 602631, 602631
HTXKC64	746471	7033	203 - 481	16785		Ile-9 to Asn-18.				H0556: 1 and L0748: 1.	
HTXJX77	870446	7034	94 - 606	16786		Gln-25 to Thr-30,				H0556: 1 and L0596: 1.	

HTXJR61	741746	7035	941 - 693	16787	Ser-45 to Lys-54. Lys-1 to Leu-6.	L0439: 3, H0556: 1 and L0747: 1.		
HTXJP17	663123	7036	77 - 334	16788	Arg-24 to Gly-32, Asp-48 to Ser-55, Pro-58 to Glu-64, Glu-69 to His-86.	L0747: 3, L0758: 2, H0556: 1 and L0515: 1.		
HTXJO80	871594	7037	329 - 454	16789		L0748: 2, H0556: 1, L0637: 1 and L0749: 1.		
HTXJO78	773508	7038	145 - 282	16790	Leu-7 to Gly-18, Trp-20 to Asn-29.	H0556: 1 and L0755: 1.		
HTXJN39	566290	7039	25 - 240	16791	Ala-4 to Glu-9, Asp-31 to Ser-36, Asp-44 to Glu-53.	AR054: 19, AR050: 2, AR051: 1 H0556: 1 and L0592: 1.		
HTXJK20	423763	7040	122 - 349	16792	Lys-1 to Arg-14, Thr-38 to Cys-50.	H0556: 1 and L0591: 1.		
HTXJC08	957757	7041	737 - 450	16793		AR054: 16, AR050: 10, AR051: 2 H0556: 1		
	972481	9613	410 - 727	19365	Gly-23 to Arg-29, Gly-33 to Ser-42, His-51 to Thr-56, Pro-67 to Ser-79, Ser-84 to Arg-91, Pro-100 to Gly-106.			
HTXJA76	767696	7042	222 - 386	16794	Ser-6 to Thr-12.	H0556: 1		
HTXJA32	699152	7043	54 - 344	16795	Ser-2 to Met-7, Pro-18 to Pro-25.	L0599: 2 and H0556: 1.		
HTXGH41	712566	7044	4 - 246	16796	Pro-3 to Gln-8, Val-35 to Asp-40.	H0265: 1 and L0749: 1.		
HTXGE85	783418	7045	1 - 462	16797		L0743: 3, L0744: 2 and H0265: 1.		
HTXFR89	790276	7046	2 - 292	16798	Arg-4 to Cys-16, Pro-18 to Pro-38, Asn-86 to Lys-92.	H0265: 1 and L0750: 1.		
HTXFN90	537392	7047	87 - 374	16799	Gly-26 to Leu-31,	H0265: 1		

HTXFN73	824543	7048	82 - 285	16800	Gln-35 to Gly-41.	H0265: 1	
HTXFN63	745316	7049	96 - 308	16801		H0265: 1	
HTXFN53	537391	7050	42 - 305	16802		H0265: 1	
HTXFN23	537393	7051	37 - 207	16803		H0265: 1	
HTXFN43	537397	7052	28 - 240	16804	Pro-7 to Asn-13, Pro-19 to Tyr-26, Arg-48 to Phe-55.	H0265: 1	
HTXFN20	537398	7053	17 - 217	16805	Lys-11 to Cys-21, Thr-41 to Pro-47, Arg-55 to Thr-60.	H0265: 1	
HTXFG29	689833	7054	79 - 210	16806		H0265: 1	
HTXFF96	796309	7055	543 - 379	16807	Trp-8 to Ala-13, Gly-22 to Ser-28, Met-38 to Pro-45.	H0265: 1	
	796314	9614	133 - 321	19366	Lys-7 to Gly-14, His-16 to Asp-22.		
HTXFF93	934438	7056	370 - 558	16808	Arg-6 to Ser-11, Val-36 to Ser-43.	H0265: 1 and L0748: 1.	
HTXEY18	869406	7057	132 - 392	16809	Pro-28 to Gly-34.	H0265: 1	
HTXEX83	780277	7058	1 - 342	16810		H0265: 1 and L0748: 1.	
HTXEE90	789161	7059	120 - 368	16811	Ser-8 to Trp-19, Glu-75 to Pro-83.	L0740: 2 and H0265: 1.	
HTXEC96	796561	7060	260 - 132	16812		H0265: 1 and L0748: 1.	
HTXEA45	723401	7061	2 - 301	16813	Pro-2 to Ser-11, Arg-36 to Ser-51.	H0265: 1 and L0596: 1.	
HTXDDZ56	733641	7062	155 - 424	16814	Tyr-39 to Tyr-45.	L0748: 2 and H0265: 1.	
HTXDW32	699539	7063	810 - 1070	16815	Ser-58 to Ile-66.	H0265: 1 and L0749: 1.	
HTXDJ77	772473	7064	2 - 202	16816	Thr-13 to Thr-19.	H0265: 1 and L0750: 1.	
HTXDD24	888612	7065	1 - 276	16817		AR054: 15, AR050: 4, AR051: 3 H0265: 1	
HTXCW50	724650	7066	3 - 422	16818	Glu-1 to Asp-9, Lys-29 to Lys-46.	L0809: 4, L0803: 2, L0777: 2, H0265: 1, L0774: 1, L0651: 1, L0749: 1 and L0780: 1.	

HTXCS84	783262	7067	5 - 82	16819	Glu-18 to Ala-24.	H0265: 1	
HTXBT88	529663	7068	17 - 286	16820	Val-1 to Ser-12, Gly-14 to Thr-22, Arg-63 to Ala-71.	H0265: 1	
HTXAW03	921906	7069	92 - 376	16821		H0265: 1, L0769: 1, L0509: 1, L0439: 1, L0747: 1 and L0755: 1.	
HTXAK96	796612	7070	360 - 485	16822	Lys-1 to Trp-8.	H0265: 1 and L0748: 1.	
HTXAJ34	707050	7071	196 - 318	16823	Tyr-13 to Phe-18.	H0265: 1 and L0754: 1.	
HTWLI77	839177	7072	1 - 411	16824	Pro-30 to Pro-38.	H0576: 1	
HTWLF58	869478	7073	131 - 433	16825	Pro-51 to Gly-58.	L0766: 1, H0576: 1 and L0779: 1.	
HTWLD61	741610	7074	3 - 218	16826	Ala-6 to Met-16, Pro-39 to Lys-45.	H0576: 1	
HTWLD10	964195	7075	85 - 189	16827		L0803: 1 and H0576: 1.	
HTWLC51	725533	7076	94 - 201	16828		L0748: 2, L0766: 1, H0576: 1 and L0779: 1.	
HTWKZ86	785318	7077	121 - 279	16829	Lys-15 to Ser-20, Glu-28 to Trp-36, Lys-38 to Lys-49.	H0576: 1	
HTWKZ46	718872	7078	160 - 354	16830	Ala-50 to Asn-63.	H0576: 1	
HTWKZ35	494833	7079	2 - 127	16831		H0576: 1	
HTWKZ28	686254	7080	177 - 395	16832	Ser-1 to Val-10, Gln-20 to Ser-29, Pro-54 to Cys-67.	H0576: 1	
HTWKZ27	812689	7081	142 - 303	16833		H0576: 1	
HTWKZ15	659934	7082	233 - 367	16834	Leu-7 to Leu-13, Pro-15 to Cys-20.	H0576: 1	
HTWKT41	712142	7083	25 - 189	16835	Trp-14 to Ser-25.	L0766: 1, H0576: 1 and L0754: 1.	
HTWKF34	703863	7084	174 - 320	16836		L0748: 2 and H0576: 1.	
HTWKB07	952841	7085	91 - 321	16837	Asp-25 to Lys-30.	L0763: 1 and H0576: 1.	
HTWJY36	708338	7086	12 - 251	16838	Pro-27 to Ser-36, Gly-73 to Leu-80.	L0761: 2, L0754: 2, L0766: 1, H0576: 1, L0779: 1, L0780: 1 and L0755: 1.	107280, 107280, 107400, 107400, 122500, 186960, 245200, 601841

HTWJH08	790185	7087	85 - 207	16839	Gly-3 to Cys-12, Lys-33 to Lys-41.	AR061: 1, AR089: 1 H0576: 1		
	846554	9615	85 - 207	19367	Gly-3 to Cys-12, Lys-33 to Lys-41.			
HTWJF89	805706	7088	45 - 323	16840	Glu-1 to Ser-9, Ser-30 to Ala-36, Gln-61 to Tyr-66.	H0576: 1 and L0748: 1.		
HTWJF50	911448	7089	916 - 1434	16841	Thr-12 to Trp-20, Pro-29 to Arg-35, Leu-51 to Arg-58, Arg-100 to Arg-108, Cys-120 to Arg-125, Pro-150 to Arg-163.	L0766: 1 and H0576: 1.		
HTWJA79	559919	7090	2 - 226	16842	Leu-38 to Lys-43, Ser-52 to Cys-58.	H0576: 1		
HTWFQ19	586124	7091	2 - 196	16843		AR054: 180, AR050: 146, AR051: 125, AR089: 10, AR061: 4 H0436: 1		
HTWFM90	582285	7092	59 - 187	16844	Leu-16 to Ser-29.	H0436: 1		
HTWFM89	786805	7093	110 - 301	16845	Gly-1 to Tyr-13, Arg-26 to Lys-39.	H0436: 1		
HTWFM79	841983	7094	19 - 186	16846	Ser-43 to Tyr-49.	L0766: 1 and H0436: 1.		
HTWFM71	760303	7095	18 - 242	16847	Leu-7 to Leu-14, Pro-16 to Glu-23, Thr-36 to Glu-51.	H0436: 1		
HTWFM48	721587	7096	1 - 114	16848	Val-14 to Leu-27.	H0436: 1		
HTWFJ71	869491	7097	346 - 609	16849	Gly-38 to Glu-48.	L0770: 1 and H0436: 1.		
HTWFH75	767251	7098	352 - 498	16850		H0436: 1 and L0748: 1.		
HTWFH73	761686	7099	239 - 460	16851		H0436: 1 and L0777: 1.		
HTWFH42	713667	7100	395 - 523	16852		H0436: 1, L0748: 1 and L0749: 1.		
HTWFG29	800193	7101	1 - 93	16853	Phe-13 to Glu-20.	H0436: 1		
HTWFD63	745010	7102	1 - 183	16854	Lys-21 to Lys-27, Arg-32 to Ser-37.	L0748: 2 and H0436: 1.		
HTWEY89	864553	7103	2 - 229	16855	Met-50 to Glu-63,	H0436: 1 and L0740: 1.	8q13	122560, 214400,

HTWEO90	78859	7104	316 - 522	16856	Ser-70 to Pro-76.	L0745: 9 and H0436: 1.	602476
HTWEJ74	765512	7105	64 - 228	16857		H0436: 1 and L0756: 1.	
HTWEH76	876853	7106	319 - 639	16858	Val-1 to Thr-16.	H0436: 1 and L0601: 1.	
HTWEC75	767264	7107	426 - 581	16859	Lys-1 to Glu-10, Leu-15 to Leu-22, Glu-35 to Asn-41.	L0745: 4, L0750: 2 and H0436: 1.	
HTWDR91	869526	7108	130 - 447	16860		H0436: 1	
HTWDO06	935644	7109	211 - 345	16861	Leu-23 to Gly-32.	L0809: 1 and H0436: 1.	
HTWDK68	753086	7110	253 - 399	16862	Met-36 to Asn-43.	H0436: 1 and L0608: 1.	
HTWDJ42	713869	7111	105 - 269	16863	Gly-5 to His-13, Lys-22 to Glu-27.	H0436: 1 and L0748: 1.	
HTWDI49	723047	7112	138 - 281	16864	Ser-24 to Trp-32.	L0745: 2, H0436: 1 and L0780: 1.	
HTWDE70	844831	7113	188 - 358	16865		H0436: 1	
	859421	9616	123 - 239	19368			
HTWCL86	575978	7114	134 - 229	16866		H0436: 1	
HTWCJ08	959591	7115	201 - 413	16867	Asn-22 to Asp-27, Leu-31 to Lys-36.	H0436: 1 and L0758: 1.	
HTWCG06	935642	7116	215 - 319	16868	Thr-1 to Pro-9.	L0766: 1 and H0436: 1.	
HTWCD06	935646	7117	387 - 542	16869		L0517: 1 and H0436: 1.	
HTWCB69	729244	7118	27 - 290	16870	Gly-32 to Gly-38, Gly-41 to Gln-53, His-58 to Phe-69.	H0436: 1 and L0748: 1.	
HTWBW72	772117	7119	244 - 2	16871		H0436: 1 and L0439: 1.	
HTWBV33	594496	7120	1053 - 769	16872		H0436: 1	
	701754	9617	344 - 189	19369			
	813291	9618	299 - 517	19370	Pro-37 to His-49, Thr-56 to Lys-64.		
HTWBV03	869549	7121	483 - 650	16873		L0766: 5, H0436: 1 and L0740: 1.	139330, 139360, 150250, 164500, 182280, 227646, 261510, 600163, 600971, 601154, 601226, 601267, 601373

HTWBT62	742588	7122	26 - 208	16874	Glu-6 to Lys-13, Thr-29 to Glu-39, Arg-48 to Gln-59.	H0436: 1 and L0748: 1.	
HTWBP67	751752	7123	102 - 221	16875		H0436: 1 and L0747: 1.	
HTWBL08	959619	7124	221 - 418	16876	Asn-6 to Ser-15.	H0436: 1 and L0747: 1.	
HTWBI04	922175	7125	132 - 362	16877	Pro-12 to Gly-20.	L0598: 1 and H0436: 1.	
HTWBF27	683546	7126	82 - 360	16878		H0436: 1 and L0752: 1.	
HTWBE63	745194	7127	181 - 309	16879	Pro-1 to Gly-12.	H0436: 1 and L0753: 1.	
HTWBD84	783120	7128	232 - 477	16880	Leu-61 to His-66.	H0436: 1 and L0748: 1.	
HTWBD61	604245	7129	285 - 569	16881		H0436: 1	
	824129	9619	418 - 167	19371	Ala-49 to Glu-56.		
HTWAM49	722141	7130	235 - 444	16882		H0187: 1 and L0748: 1.	
HTWAM48	518825	7131	33 - 308	16883	Ser-59 to Glu-71.	L0605: 2 and H0187: 1.	
HTWAM25	677506	7132	744 - 289	16884	Thr-1 to Lys-11.	L0758: 5, L0794: 4, L0803: 3, L0744: 2, L0756: 2, L0435: 1, L0804: 1, L0806: 1, L0805: 1, L0776: 1, L0809: 1, L0789: 1, H0187: 1, L0439: 1, L0751: 1, L0779: 1 and L0591: 1.	
HTWAJ11	967845	7133	261 - 443	16885	His-21 to Pro-27.	L0759: 2, L0657: 1 and H0187: 1.	
HTWAE31	725127	7134	3 - 191	16886		H0187: 1 and L0439: 1.	
HTWAB85	522346	7135	89 - 307	16887		H0187: 1	
HTWAB65	533745	7136	151 - 429	16888	Tyr-18 to Lys-31, Ser-50 to Arg-59.	H0187: 1	
HTWAB57	735153	7137	24 - 191	16889	Lys-15 to Ile-20.	H0187: 1	
HTWAB46	522817	7138	87 - 218	16890		H0187: 1	
HTWAB42	714291	7139	23 - 217	16891	Ser-1 to Asp-10, Lys-36 to Glu-43.	H0187: 1	
HTWAB32	524291	7140	187 - 321	16892	Leu-7 to Leu-13, Pro-15 to Cys-20, Pro-23 to Cys-28.	H0187: 1	
HTWAB27	522796	7141	54 - 134	16893		H0187: 1	
HTWAB18	522794	7142	124 - 207	16894		H0187: 1	
HTWAA90	789271	7143	196 - 426	16895	Val-3 to Thr-10,	H0187: 1	

HTWAA79	869563	7144	214 - 405	16896	Glu-31 to Leu-40.	H0187: 1	
HTWAA42	522603	7145	2 - 85	16897	Ser-20 to Leu-28.	H0187: 1	
HTWAA32	522797	7146	281 - 439	16898		H0187: 1	
HTWAA31	915276	7147	77 - 337	16899		H0187: 1	
HTWAA22	425133	7148	48 - 287	16900	Glu-39 to Thr-47.	H0187: 1	
HTWAA17	667166	7149	46 - 276	16901	Ser-17 to Lys-32.	H0187: 1	
HTUAE10	968597	7150	237 - 404	16902		H0185: 1, L0509: 1, L0607: 1 and L0493: 1.	
HTUAA93	522950	7151	1 - 267	16903		H0185: 1	
HTUAA79	773978	7152	196 - 360	16904		H0185: 1	
HTUAA63	522080	7153	3 - 134	16905		H0185: 1	
HTUAA59	556958	7154	151 - 318	16906	Pro-33 to Ser-38.	H0185: 1	
HTUAA55	522805	7155	74 - 226	16907	Thr-4 to Asp-10.	H0185: 1	
HTUAA51	725949	7156	216 - 317	16908	Leu-5 to Phe-11.	L0740: 2 and H0185: 1.	
HTUAA45	526606	7157	3 - 203	16909	Gly-39 to Ile-46.	H0185: 1	
HTUAA42	694535	7158	38 - 115	16910	Gln-15 to Cys-23.	H0185: 1	
HTUAA32	522807	7159	95 - 187	16911	Gln-15 to Phe-20.	H0185: 1	
HTUAA25	575308	7160	168 - 452	16912		L0748: 2 and H0185: 1.	
HTUAA23	575319	7161	165 - 371	16913	Arg-6 to Leu-15, Leu-23 to Gly-28.	H0185: 1	
HTUAA21	575312	7162	2 - 343	16914		H0185: 1	
HTUAA11	967919	7163	57 - 173	16915		H0185: 1	
HTUAA06	960761	7164	229 - 384	16916	Asp-1 to Glu-9, Gly-35 to Gly-42.	H0185: 1	
HTUAA02	921277	7165	178 - 2	16917	Ser-1 to Thr-9, Glu-16 to Leu-22.	H0185: 1	
HTSHI55	576030	7166	129 - 233	16918	His-3 to Tyr-10, Lys-29 to Asn-34.	H0087: 1	
HTSHC81	778008	7167	224 - 370	16919		H0087: 1 and L0602: 1.	14q32.3-qter
HTSHB38	709445	7168	3 - 236	16920	Pro-10 to Ala-16.	L0589: 2 and H0087: 1.	
HTSHB18	666569	7169	20 - 142	16921	Glu-18 to Lys-23, Ser-36 to Arg-41.	H0087: 1, L0438: 1, L0740: 1 and L0758: 1.	
HTSGZ92	975082	7170	1 - 297	16922	Gln-3 to Thr-9.	H0087: 1 and L0809: 1.	
HTSGQ88	576077	7171	3 - 245	16923	Glu-24 to Arg-38.	H0087: 1	



HTSGQ42	576078	7172	1 - 282	16924	Ala-69 to Arg-81. Gly-1 to Glu-6, Pro-15 to Pro-23, Ser-29 to Glu-46, Leu-48 to Asp-66.	H0087: 1		
HTSGM53	728289	7173	199 - 420	16925	Pro-21 to Lys-28.	L0748: 2 and H0087: 1.		
HTSGL89	787027	7174	336 - 539	16926		H0087: 1 and L0753: 1.		
HTSFU94	793056	7175	1 - 267	16927	Asp-64 to Ser-76, Thr-78 to Ala-86.	L0747: 3, H0087: 1 and L0731: 1.		
HTSFF64	747003	7176	2 - 412	16928	Ala-1 to Pro-9, Pro-45 to Pro-55, Pro-63 to Cys-74, Pro-85 to Val-98.	H0087: 1, L0744: 1 and L0731: 1.		
HTSEX79	524280	7177	20 - 253	16929	Gln-16 to Phe-30.	H0087: 1		
HTSEW02	920963	7178	85 - 264	16930	Ser-53 to Phe-59.	L0803: 3, H0087: 1, L0754: 1 and L0749: 1.		
HTSAA20	836021	7179	156 - 350	16931		H0087: 1 and L0748: 1.		
HTOJZ05	869900	7180	2 - 316	16932		H0264: 1		
	869903	9620	472 - 768	19372	Pro-7 to Pro-17.			
HTOJV25	456941	7181	2 - 199	16933	Asn-1 to Ile-11.	H0264: 1		
HTOJT60	740599	7182	185 - 304	16934		H0264: 1 and L0754: 1.		
HTOJN69	869925	7183	2 - 187	16935		H0264: 1 and L0748: 1.		
HTOJM95	795719	7184	506 - 315	16936		H0264: 1		
	796022	9621	66 - 260	19373				
HTOJL36	866492	7185	327 - 662	16937	Ser-9 to His-14, Gly-40 to Thr-46.	H0264: 1		
HTOJF70	457041	7186	208 - 408	16938	Glu-30 to Asp-36.	H0264: 1 and L0748: 1.	22q13.31	250100, 250800, 250800
HTOJB05	932423	7187	1 - 258	16939	Ser-24 to Asp-31.	H0264: 1, L0748: 1 and L0745: 1.		
HTOIZ49	586144	7188	28 - 219	16940		AR054: 35, AR050: 33, AR051: 28 H0264: 1		
HTOIX57	735004	7189	156 - 341	16941	Asn-36 to His-48.	L0748: 2 and H0264: 1.		
HTOIQ30	584928	7190	252 - 407	16942		H0264: 1 and L0749: 1.		
HTOIL74	765840	7191	1 - 384	16943	Thr-53 to Pro-58,	H0264: 1 and L0747: 1.		

							His-103 to Leu-109, Gln-112 to Trp-126.			
HTOIK90	557829	7192	130 - 273	16944			Gln-14 to Tyr-22.		H0264: 1	
HTOIJ84	783212	7193	342 - 500	16945			Gln-1 to Arg-8.		L0754: 2 and H0264: 1.	
HTOIH68	753595	7194	201 - 371	16946			Pro-11 to Gly-16.		H0264: 1 and L0605: 1.	
HTOIH09	961168	7195	59 - 190	16947					S0005: 1 and H0264: 1.	
HTOIF08	959992	7196	162 - 488	16948			Pro-1 to Arg-10.		L0459: 1, H0264: 1, L0744: 1 and L0752: 1.	
HTOIA89	787088	7197	491 - 252	16949			Lys-1 to Lys-7.		H0264: 1 and L0748: 1.	
HTOIA82	844319	7198	41 - 286	16950			Arg-44 to Gly-59.		AR061: 4, AR089: 2	
HTOHZ59	869950	7199	26 - 355	16951			Ser-10 to Glu-16, Asp-28 to Pro-36.		H0264: 1 and L0754: 1.	
HTOHX62	537358	7200	3 - 92	16952			Glu-1 to Ile-15.		H0264: 1, L0517: 1 and L0596: 1.	
									AR051: 11, AR054: 1, AR050: 1	
HTOHT93	791459	7201	162 - 440	16953			Pro-64 to Thr-70.		H0264: 1	
HTOHR03	924976	7202	6 - 329	16954			Arg-13 to Gln-21, Phe-25 to Ser-33, Pro-85 to Lys-92.		H0264: 1 and L0366: 1.	
HTOHN89	956264	7203	167 - 427	16955			Asn-42 to Lys-54.		L0794: 2 and H0264: 1.	
									H0264: 1, L0748: 1 and L0749: 1.	
HTOHI14	659280	7204	119 - 478	16956					H0264: 1	
HTOHH78	963216	7205	544 - 888	16957			Thr-4 to Cys-15, Glu-31 to Arg-36, Gln-68 to Trp-80, Ser-98 to Glu-105.		L0601: 2 and H0264: 1.	
HTOHG68	964961	7206	1 - 183	16958			Ser-10 to Pro-19, Thr-23 to Arg-35, Asn-56 to Arg-61.		H0264: 1 and L0753: 1.	
HTOGU88	558488	7207	100 - 285	16959					H0264: 1	
HTOGU78	529798	7208	52 - 138	16960					H0264: 1	
HTOGU77	523533	7209	40 - 132	16961			Ser-1 to Ser-7.		H0264: 1	
HTOGC91	790438	7210	308 - 463	16962					H0264: 1 and L0439: 1.	
HTOFV57	529614	7211	35 - 184	16963			Asn-1 to Glu-14.		H0264: 1	
HTOFV08	960203	7212	1 - 150	16964			Ala-11 to Tyr-16,		H0264: 1	

HTOFU55	732454	7213	77 - 196	16965	Lys-43 to Pro-50.	H0264: 1 and L0749: 1.	
HTOFT20	527938	7214	1 - 60	16966	Glu-9 to Tyr-16.	H0264: 1	
HTOFS74	765918	7215	46 - 174	16967	Pro-15 to Leu-20.	H0264: 1 and L0599: 1.	
HTOFO18	911756	7216	1179 - 1376	16968	Pro-1 to Trp-13.	H0264: 1	
	911956	9622	980 - 1156	19374	Asn-25 to Leu-34.		
HTOFC06	960546	7217	84 - 266	16969		H0264: 1 and L0803: 1.	
HTOEX28	936543	7218	280 - 513	16970	Arg-15 to Gly-22.	H0264: 1 and L0747: 1.	
HTOEV91	509938	7219	268 - 38	16971	Pro-11 to Tyr-16, Thr-24 to Ser-35.	H0264: 1	
	534071	9623	581 - 408	19375	Thr-31 to Gly-36.		
HTOET61	742164	7220	323 - 445	16972		H0264: 1 and L0766: 1.	
HTOEE28	685375	7221	83 - 259	16973		H0264: 1	
	869988	9624	306 - 530	19376			
HTODM08	960113	7222	2 - 400	16974	Leu-12 to Phe-18.	H0264: 1 and L0755: 1.	
HTODL10	968395	7223	1 - 282	16975	Ser-4 to Glu-14, Gln-16 to Ala-24.	H0264: 1 and L0601: 1.	
HTODD59	738532	7224	287 - 400	16976	Pro-3 to Gln-11.	H0264: 1 and L0754: 1.	
HTODA31	698400	7225	56 - 436	16977	Gln-4 to Ala-19, Ser-63 to Asn-80, Glu-104 to Ile-110, Pro-121 to Lys-127.	L0777: 2 and H0264: 1.	
HTOCK85	521944	7226	1 - 201	16978		H0272: 1	
HTOCK73	870004	7227	103 - 351	16979	Arg-12 to Tyr-19, Tyr-27 to Thr-33, Asn-62 to Ser-71.	H0272: 1	
HTOCK14	529958	7228	2 - 298	16980		H0272: 1	
HTOCK03	925368	7229	2 - 124	16981		H0272: 1	
HTOCA55	732469	7230	20 - 148	16982	Phe-21 to Lys-33.	H0272: 1	
HTOBE60	742315	7231	281 - 469	16983		H0272: 1 and L0748: 1.	
HTOBC63	530283	7232	2 - 190	16984	Ile-1 to Asn-6, Gly-10 to Lys-29.	H0272: 1	
HTOBC26	870011	7233	1 - 159	16985		H0272: 1	
HTOBA33	965151	7234	295 - 525	16986		L0439: 2, H0272: 1 and L0766: 1.	

HTOAT88	530183	7235	268 - 411	16987		H0264: 1	
HTOAT81	530185	7236	1 - 231	16988		H0264: 1	
HTOAT68	530187	7237	11 - 187	16989	Arg-1 to Gln-16.	H0264: 1	
HTOAT66	530188	7238	62 - 208	16990		H0264: 1	
HTOAT63	523754	7239	122 - 292	16991	Ser-1 to Trp-6.	H0264: 1	
HTOAT57	870017	7240	19 - 126	16992	Glu-20 to Arg-27.	H0264: 1	
HTOAT50	723595	7241	3 - 176	16993		H0264: 1	
HTOAT43	529840	7242	52 - 135	16994		H0264: 1	
HTOAT35	521914	7243	2 - 100	16995	Asn-1 to Thr-15.	H0264: 1	
HTOAT28	530191	7244	180 - 326	16996	Lys-7 to Gly-15.	H0264: 1	
HTOAT27	682115	7245	101 - 295	16997	Phe-5 to Ala-10, Glu-12 to Asn-17, Val-21 to Asp-35, Ile-58 to Asp-64.	H0264: 1	
HTOAT06	960581	7246	2 - 241	16998		H0264: 1	
HTOAO63	745545	7247	440 - 634	16999	Arg-1 to Ile-9.	H0264: 1 and L0748: 1.	
HTOAO01	921744	7248	1 - 165	17000		H0264: 1 and L0754: 1.	
HTOAM08	960122	7249	23 - 181	17001	Ser-3 to Thr-11.	H0264: 1 and L0758: 1.	
HTOAL84	783261	7250	2 - 118	17002	Ser-20 to Thr-27.	H0264: 1 and L0748: 1.	
HTOAK39	709579	7251	109 - 435	17003	Pro-83 to Ser-89.	H0264: 1 and L0581: 1.	
HTOAI51	529553	7252	44 - 193	17004		H0264: 1	
HTOAI25	529556	7253	1 - 105	17005		H0264: 1	
HTOAI15	529557	7254	61 - 261	17006		H0264: 1	
HTOAD05	932732	7255	261 - 94	17007		H0264: 1 and L0608: 1.	
HTOAA73	764707	7256	89 - 217	17008		H0264: 1 and L0599: 1.	
HTJNX95	795376	7257	1 - 465	17009	Leu-29 to Lys-36.	H0488: 1 and L0439: 1.	
HTJNT65	771995	7258	195 - 311	17010	Ala-1 to Thr-7.	L0731: 2 and H0488: 1.	
HTJNF11	966217	7259	232 - 582	17011	Ser-5 to Asp-11, Arg-18 to Asn-27, Pro-33 to Glu-39, Ser-44 to Trp-50.	H0488: 1 and L0766: 1.	
HTJMZ89	973076	7260	2 - 181	17012		H0488: 1	
HTJMU86	870312	7261	268 - 408	17013	Ser-1 to Ala-7.	H0488: 1 and L0766: 1.	
HTJMQ90	974496	7262	98 - 223	17014		H0488: 1	
HTJML71	759890	7263	1 - 261	17015	Phe-11 to Thr-21,	H0488: 1 and L0766: 1.	

HTJMF56	733444	7264	257 - 481	17016	Leu-67 to Ser-75.			
HTJAE78	773609	7265	177 - 404	17017	Ala-22 to Tyr-28.	H0488: 1 and L0740: 1.		
HTJAD50	724438	7266	149 - 298	17018	Thr-13 to Lys-18.	H0487: 1		
HTHDS68	753137	7267	3 - 230	17019		H0487: 1 and L0748: 1.		
HTHDR27	578830	7268	150 - 344	17020	Pro-27 to Ser-33, Ser-39 to Pro-44.	H0063: 1 and L0748: 1.		
HTHDQ05	932174	7269	36 - 302	17021		H0063: 1		
HTHDM10	964906	7270	88 - 228	17022	His-16 to Phe-28, Arg-37 to Lys-43.	H0063: 1 and L0769: 1.		
HTHDL30	578894	7271	3 - 314	17023		H0063: 1		
HTHDJ93	792443	7272	170 - 457	17024	Asp-1 to His-6.	L0759: 2 and H0063: 1.		
HTHDF13	490673	7273	381 - 175	17025	Ala-49 to Asn-54.	H0063: 1		
HTHDE83	516372	7274	279 - 413	17026	Ser-5 to Asp-11.	H0063: 1		
	826819	9625	456 - 304	19377				
HTHDC07	953604	7275	327 - 533	17027	Gln-13 to Glu-21.	H0063: 1 and L0764: 1.		
HTHCV69	973309	7276	137 - 343	17028	Pro-28 to Cys-39.	H0063: 1		
HTHCU42	578861	7277	3 - 224	17029	Gln-7 to Arg-15, Ser-22 to Cys-29.	H0063: 1		
HTHCO72	578758	7278	177 - 323	17030		H0063: 1		
HTHCO45	722029	7279	1 - 159	17031	Thr-14 to Gly-22, Ser-40 to Glu-45.	H0063: 1		
HTHCK89	694051	7280	276 - 1	17032	Arg-14 to Thr-27, Leu-36 to Gly-42, Arg-51 to Cys-73, Glu-82 to Arg-92.	H0063: 1, L0657: 1 and L0592: 1.		
	870359	9626	1 - 489	19378	Gln-31 to Trp-36, Arg-61 to Lys-80, Pro-93 to Thr-100.			
	870365	9627	219 - 539	19379	Thr-19 to Gly-24.			
HTHCG74	578839	7281	1 - 87	17033		H0063: 1		
HTHBY73	946168	7282	1 - 360	17034	Asp-38 to Gly-44, Cys-92 to Gly-98, Ala-101 to Trp-106.	AR061: 12, AR089: 9 H0063: 1		
HTHBW81	519640	7283	134 - 283	17035	His-40 to Asn-47.	H0063: 1		

	625209	9628	485 - 147	19380	Glu-10 to Gln-15.			
HTHBW64	746955	7284	318 - 563	17036	Ser-12 to Lys-20, Ala-31 to His-36.	H0063: 1 and L0754: 1.		
HTHBU25	961627	7285	294 - 554	17037	Phe-20 to Ser-26, Pro-47 to Thr-55.	L0439: 3 and H0063: 1.		
HTHBT36	458387	7286	146 - 310	17038	Asn-15 to Gln-27, Ser-41 to Gly-47.	H0063: 1 and L0748: 1.		
HTHBM85	790305	7287	1 - 483	17039	Gly-1 to Arg-7.	H0063: 1 and L0439: 1.	15q24-q25	118485, 231680, 272800, 272800, 272800, 276700, 602685
HTHBM60	739707	7288	58 - 201	17040	Tyr-21 to Ser-33.	H0063: 1 and L0777: 1.		
HTHBK64	573926	7289	181 - 273	17041	Arg-15 to Leu-20, Gly-24 to Arg-31.	H0063: 1		
HTHBK47	526705	7290	46 - 240	17042	Gly-1 to Arg-9,	H0063: 1		
HTHBK04	925600	7291	2 - 148	17043	Gln-15 to Gly-26, Gln-29 to Phe-35.	H0063: 1		
HTHBH32	699557	7292	119 - 589	17044	Thr-7 to Arg-19, Lys-60 to Leu-68, Val-107 to Glu-119.	L0803: 2, L0750: 2, H0063: 1, L0763: 1, L0772: 1 and L0789: 1.		
HTHBG23	410319	7293	3 - 182	17045	Ile-1 to Cys-8, Ser-11 to Leu-22, His-25 to Glu-33.	H0063: 1		
HTHBC07	954440	7294	323 - 213	17046	Ser-9 to Ser-15.	H0063: 1		
HTHBC04	933029	7295	123 - 16	17047		H0063: 1 and L0764: 1.		
HTHAA24	575493	7296	3 - 239	17048	Ser-49 to Asp-54, Lys-56 to Asp-71.	H0062: 1		
HTGG027	682376	7297	3 - 185	17049	Val-2 to Arg-11.	S0218: 1 and L0754: 1.		
HTGGN71	760059	7298	249 - 428	17050	Phe-1 to Asp-7.	S0218: 1 and L0748: 1.		
HTGGN51	870386	7299	47 - 238	17051		S0218: 1 and L0367: 1.		
HTGFY55	731360	7300	1 - 141	17052	Ala-1 to Ala-7, His-20 to Gly-38.	S0218: 1		
HTGFY05	928205	7301	35 - 145	17053	Leu-7 to His-12.	S0218: 1		
HTGFK70	756534	7302	3 - 131	17054	Gly-7 to Ser-12.	S0218: 1 and L0777: 1.		
HTGEY89	786057	7303	2 - 202	17055	Pro-59 to Trp-67.	S0218: 1		

HTGEY40	711177	7304	76 - 246	17056			S0218: 1		
HTGEX10	963862	7305	301 - 1017	17057	Arg-3 to Ser-9, Arg-11 to Trp-30, Thr-38 to Tyr-49, Thr-101 to Arg-107, Gly-139 to Tyr-146, Tyr-215 to Lys-223.	AR089: 43, AR061: 9 S0218: 1 and L0623: 1.			
HTGEX03	923445	7306	135 - 317	17058	Glu-1 to Arg-10, Ser-26 to Gly-39.	S0218: 1 and L0605: 1.			
HTGEU48	721660	7307	258 - 425	17059	Asp-48 to Phe-55.	S0218: 1 and L0599: 1.			
HTGEG89	786665	7308	28 - 228	17060		S0218: 1 and L0748: 1.			
HTGEG17	662369	7309	254 - 508	17061	Ser-68 to Gly-85.	L0766: 3, S0218: 1, L0789: 1 and L0748: 1.			
HTGED13	656504	7310	119 - 244	17062	Ser-32 to Lys-42.	S0218: 1 and L0748: 1.			
HTGEA37	908606	7311	3 - 122	17063	Pro-21 to Gly-31.	S0218: 1 and L0758: 1.	17q11.2	154275, 162200, 162200, 182138, 239100, 600881, 601954, 602403	
HTGDX37	708877	7312	86 - 466	17064		L0748: 2, S0134: 1 and L0749: 1.			
HTGDX10	963854	7313	86 - 316	17065	Ser-8 to Arg-14.	S0134: 1 and L0517: 1.			
HTGDV61	741381	7314	297 - 515	17066		S0134: 1, L0766: 1 and L0749: 1.			
HTGDV52	796065	7315	104 - 364	17067	Asn-13 to Leu-18, Pro-68 to Ser-73.	L0747: 2, S0134: 1, L0439: 1, L0749: 1 and L0756: 1.			
HTGCQ86	784676	7316	3 - 392	17068	Thr-46 to Ser-55.	L0748: 2 and S0134: 1.			
HTGCH60	895628	7317	382 - 134	17069		S0134: 1			
HTGCD55	732247	7318	523 - 678	17070		L0748: 2 and S0134: 1.			
HTGBS94	578786	7319	238 - 399	17071		S0134: 1			
HTGBS70	870405	7320	1 - 120	17072	Glu-14 to Ala-19.	S0134: 1			
HTGBS59	739388	7321	155 - 286	17073		S0134: 1 and L0756: 1.			
HTGBS51	578782	7322	66 - 167	17074		S0134: 1			
HTGBS34	576472	7323	3 - 200	17075		S0134: 1 and L0756: 1.			
HTGBS08	959699	7324	565 - 810	17076	Leu-10 to His-15, Gly-31 to Glu-36, Glu-53 to Gly-65.	L0748: 2 and S0134: 1.			

HTGBR52	727276	7325	230 - 391	17077	Phe-20 to Ser-25.	L0754: 2 and S0134: 1.	16q22	103850, 114835, 121360, 217800, 218030
HTGBN58	738229	7326	114 - 233	17078		S0134: 1 and L0439: 1.		
HTGBL15	660483	7327	225 - 518	17079		S0134: 1 and L0748: 1.		
HTGBH09	625756	7328	7 - 126	17080	Glu-29 to Arg-40.	L0598: 2 and S0134: 1.		
HTGBE67	751525	7329	55 - 228	17081		S0134: 1		
HTGBE59	578807	7330	27 - 185	17082	Lys-1 to Lys-7.	S0134: 1		
HTGBE05	932168	7331	127 - 375	17083	Pro-54 to Pro-59.	S0134: 1		
HTGAZ86	785594	7332	96 - 239	17084		S0134: 1 and L0748: 1.		
HTGAZ75	766583	7333	342 - 479	17085		S0134: 1 and L0748: 1.		
HTGAY27	683556	7334	31 - 252	17086		L0367: 2, S0134: 1, L0370: 1, L0652: 1, L0748: 1 and L0605: 1.		
HTGAX83	781275	7335	1 - 210	17087	Asn-18 to Cys-24, Arg-57 to Pro-70.	S0134: 1 and L0756: 1.		
HTGAW78	773666	7336	199 - 417	17088	Leu-43 to Thr-48.	S0134: 1 and L0766: 1.		
HTGAT92	496307	7337	503 - 297	17089		S0134: 1 and L0766: 1.		
HTGAT55	732248	7338	162 - 446	17090	Pro-23 to Pro-32, Arg-46 to Trp-51.	L0749: 2 and S0134: 1.		
HTGAT16	919524	7339	141 - 356	17091		S0134: 1 and L0748: 1.		
HTGAT01	870424	7340	67 - 372	17092		S0134: 1 and L0766: 1.		
HTGAS15	870423	7341	14 - 223	17093	Lys-11 to Cys-18.	S0134: 1, L0756: 1 and L0759: 1.		
HTGAR44	716740	7342	22 - 309	17094	Trp-49 to Ala-54, His-62 to Asp-71, Gln-88 to Ser-96.	S0134: 1 and L0581: 1.		
HTGAK39	705634	7343	3 - 173	17095	Pro-31 to Gln-36.	S0134: 1 and L0766: 1.		
HTGAJ86	785672	7344	3 - 113	17096	Leu-15 to Arg-24.	S0134: 1 and L0749: 1.		
HTGAJ73	764598	7345	194 - 430	17097	Arg-26 to Glu-31, Gly-51 to Gln-59.	S0134: 1 and L0748: 1.		
HTGAI96	796541	7346	349 - 618	17098	Leu-6 to Gly-11.	S0134: 1, L0748: 1 and L0756: 1.		
HTGAI15	870441	7347	214 - 462	17099		S0134: 1 and L0749: 1.		
HTGAI13	955227	7348	178 - 387	17100	Asn-29 to Lys-37.	S0134: 1 and L0748: 1.		



HTGAD62	754052	7349	1 - 126	17101			S0134: 1 and L0731: 1.		
HTGAD16	567432	7350	204 - 554	17102	Gln-29 to Phe-35, Pro-73 to Pro-79, Pro-86 to Pro-99.		AR051: 22, AR050: 19, AR054: 17 S0134: 1		
HTGAD05	932378	7351	223 - 372	17103	Ala-13 to Leu-23, Ala-30 to Asp-40.		L0608: 2 and S0134: 1.		
HTGAC17	664513	7352	2 - 220	17104	Pro-23 to His-28, Ser-65 to Arg-70.		S0134: 1, L0790: 1 and L0740: 1.		
HTGAA80	574099	7353	119 - 277	17105	Pro-10 to Gln-24.		S0134: 1		
HTGAA44	574114	7354	42 - 266	17106	Ser-2 to Glu-10, Lys-18 to Gly-28.		S0134: 1		
HTDAC74	765656	7355	6 - 311	17107	His-1 to Trp-6, Arg-36 to Gly-67, Pro-73 to Gln-82.		L0361: 2, H0477: 1 and L0601: 1.		
HTDAB18	870746	7356	339 - 659	17108	Gly-10 to Ser-17.		H0477: 1 and L0803: 1.		
HTBAB07	954434	7357	3 - 224	17109	Gln-1 to Met-6, Pro-9 to Asp-14, Glu-36 to Trp-45, Arg-47 to Glu-58.		H0075: 1 and L0589: 1.		
HTBAA86	785846	7358	160 - 420	17110	His-1 to Ala-8.		H0075: 1		
HTAIP12	969518	7359	438 - 79	17111	Pro-5 to Arg-10, Gly-71 to Arg-76.		H0635: 1, L0772: 1 and L0662: 1.		
HTAJD72	880561	7360	237 - 88	17112			H0635: 1 and L0748: 1.		
HTAIY90	973870	7361	202 - 411	17113	Arg-23 to Trp-48.		H0635: 1		
HTAIQ05	930947	7362	147 - 359	17114	Ser-35 to Ile-41.		H0635: 1 and L0070: 1.		
HTAIG58	838701	7363	288 - 452	17115			L0455: 2 and H0635: 1.		
HTAIF22	910040	7364	179 - 457	17116			AR061: 4, AR089: 3 H0635: 1		
HTAIF11	965738	7365	3 - 461	17117	Glu-1 to Arg-7, His-87 to Gln-95.		H0635: 1		
HTAHZ02	918304	7366	65 - 277	17118			H0635: 1		
HTAGB16	870855	7367	249 - 569	17119	His-16 to Trp-25, Asp-55 to Gly-63.		H0635: 1 and L0748: 1.		
HTAFC92	790991	7368	113 - 418	17120			AR050: 26, AR051: 23, AR054: 22 H0069: 1		

HTAEV23	959129	7369	823 - 329	17121	Leu-7 to Lys-16, Thr-31 to Arg-41, Lys-54 to Asn-61, Ser-89 to His-104, Lys-126 to Lys-131.	AR061: 6, AR089: 4 H0069: 1		
HTAEP05	932459	7370	52 - 228	17122	Arg-41 to Glu-46, Glu-49 to Arg-59.	H0069: 1, L0370: 1, L0776: 1 and L0758: 1.		
HTAEK41	870858	7371	1 - 306	17123	Gly-1 to Arg-7.	H0069: 1	2q37.2	
HTAEF68	753597	7372	1 - 168	17124	Thr-27 to Ser-40.	H0069: 1 and L0439: 1.		
HTADW88	425065	7373	114 - 221	17125	Trp-1 to Gly-7.	H0069: 1		
HTADW52	537376	7374	63 - 170	17126		H0069: 1		
HTADO10	968307	7375	3 - 161	17127		H0069: 1 and L0438: 1.		
HTADB68	753598	7376	3 - 134	17128	Pro-6 to Lys-17.	H0069: 1 and L0748: 1.		
HTACX05	932467	7377	419 - 661	17129	Ser-16 to Gly-22.	H0069: 1 and L0750: 1.		
HTACW82	778852	7378	3 - 134	17130	Ser-1 to Gly-15.	H0069: 1 and L0748: 1.		
HTABK47	720684	7379	161 - 526	17131		L0749: 2, H0069: 1 and L0748: 1.		
HTABE12	971524	7380	98 - 187	17132		H0069: 1 and L0748: 1.		
HTAAO12	972231	7381	64 - 291	17133		H0069: 1 and L0643: 1.		
HTAAB06	960796	7382	110 - 15	17134	Ser-1 to Gly-9, Pro-12 to Gly-25, Pro-27 to Gly-32.	L0518: 4 and H0069: 1.		
HTAAA45	518652	7383	299 - 123	17135	Asn-6 to Ser-11, Pro-28 to Trp-37, Thr-39 to Lys-50.	H0069: 1		
HTAAA31	693527	7384	130 - 2	17136	Phe-19 to Gln-24.	H0069: 1 and L0740: 1.		
HT4AY23	973773	7385	2 - 169	17137	Pro-2 to Cys-18, Phe-22 to Gly-29.	H0141: 1		
HT3TA67	752169	7386	1 - 483	17138	Gln-1 to Ser-9, Ser-43 to Glu-53, Leu-84 to Phe-92, Leu-96 to Ile-101.	L0439: 3 and H0223: 1.		
HT3SH28	508061	7387	1 - 210	17139	Gln-16 to Ser-21, Thr-48 to Lys-56.	H0222: 1		
HT3SA81	589206	7388	3 - 272	17140	Pro-27 to Ser-35, Pro-51 to Trp-58.	H0222: 1	1q21	104770, 107670, 110700, 135940,

									145001, 146790, 152445, 152445, 159001, 174000, 179755, 182860, 182860, 182860, 191315, 230800, 230800, 266200, 600897, 601105, 601412, 601652, 602491
HT3SA80	781631	7389	134 - 349	17141	Gly-27 to Ala-33.			H0222: 1	
HT3SA71	766391	7390	54 - 326	17142	Gln-20 to Phe-26, Val-73 to Asn-91.			H0222: 1	
HT3SA56	522757	7391	233 - 418	17143	Asn-32 to Lys-43.			H0222: 1	
HT3BK75	766488	7392	1 - 273	17144				H0159: 1 and L0743: 1.	
HT3BF33	527782	7393	80 - 181	17145	Val-27 to Ser-33.			H0159: 1	
HT2TA82	522751	7394	77 - 160	17146				H0221: 1	
HT2TA37	522754	7395	20 - 193	17147	Glu-38 to Ser-44.			H0221: 1	
HT2SA86	524290	7396	101 - 265	17148	Ser-9 to Ser-14, Glu-30 to Ile-36, Tyr-38 to His-43.			H0220: 1	
HT2SA63	518341	7397	37 - 171	17149				H0220: 1	
HT2SA50	522771	7398	180 - 326	17150	Pro-1 to Asn-7, Gly-23 to Ile-28.			L0748: 2 and H0220: 1.	
HT2SA48	508077	7399	52 - 273	17151	Gly-25 to His-31.			H0220: 1	
HT2SA47	578704	7400	110 - 247	17152				H0220: 1	
HT2SA38	840184	7401	21 - 155	17153				H0220: 1	
HT2SA37	695038	7402	2 - 97	17154				H0220: 1	
HT2SA26	522770	7403	403 - 272	17155	Lys-1 to Leu-11.			H0220: 1 and L0439: 1.	
HT2SA13	870917	7404	124 - 336	17156	Glu-1 to Val-11, Leu-34 to Tyr-44.			H0220: 1	
HT1TB40	575355	7405	114 - 251	17157				H0219: 1	
HSYDH60	949156	7406	115 - 282	17158	Pro-20 to Ser-25, Phe-49 to Trp-54.			L0731: 2, H0551: 1, L0747: 1 and L0750: 1.	
HSYCZ04	926955	7407	233 - 376	17159				H0551: 1 and L0745: 1.	
HSYCV01	940661	7408	1 - 522	17160	Thr-11 to Arg-16.			H0551: 1 and L0740: 1.	

HSYCS04	926943	7409	247 - 134	17161			H0551: 1 and L0542: 1.		
HSYBZ51	725586	7410	2 - 388	17162			H0551: 1 and L0752: 1.		
HSYBX42	713630	7411	1 - 210	17163		Arg-10 to Arg-20, Ala-35 to Gly-54.	H0551: 1 and L0601: 1.		
HSYBW55	731627	7412	245 - 532	17164		Ile-1 to Asn-10.	H0551: 1 and L0740: 1.		
HSYBK77	772067	7413	59 - 541	17165			H0551: 1, L0740: 1 and L0777: 1.		
HSYBH70	756492	7414	89 - 475	17166		Val-1 to Asp-6, Val-10 to Asn-20, Gly-33 to Asn-46, Glu-57 to Ser-62, Ala-69 to Gln-74, Asp-90 to Ser-100.	L0439: 2, H0551: 1 and L0745: 1.		
HSYBH16	661807	7415	2 - 571	17167		Pro-10 to Arg-16.	H0551: 1, L0747: 1 and L0777: 1.		
HSYAV79	928403	7416	85 - 408	17168			H0551: 1 and L0766: 1.		
HSYAU07	953032	7417	1 - 216	17169			H0551: 1, L0779: 1, L0592: 1 and L0608: 1.		
HSYAF81	493771	7418	134 - 3	17170		Leu-22 to Ala-28, Lys-33 to Arg-44.	H0551: 1		
HSMBD15	659891	7419	2 - 421	17171		Ser-36 to Thr-42.	S0298: 1 and L0740: 1.	19q	
HSMBC78	917244	7420	374 - 610	17172			S0298: 1 and L0759: 1.		
HSMBA83	780932	7421	9 - 239	17173		Pro-9 to Trp-16, Pro-55 to Leu-61, Asn-70 to Gly-77.	S0298: 1 and L0756: 1.		
HSMBA39	715630	7422	166 - 363	17174			L0770: 2, L0749: 2, S0298: 1, L0653: 1, L0776: 1, L0659: 1 and L0789: 1.		
HSAZQ69	754362	7423	170 - 298	17175			S0114: 1 and L0754: 1.		
HSAZP83	780400	7424	283 - 510	17176		Arg-15 to Ile-23, Thr-33 to Phe-39.	S0114: 1 and L0745: 1.		
HSAZP65	747422	7425	15 - 284	17177		Thr-8 to Trp-13.	S0114: 1 and L0754: 1.		
HSAZI64	746074	7426	326 - 517	17178		Leu-9 to His-14.	S0114: 1 and L0756: 1.		
HSAZI53	727757	7427	239 - 337	17179			L0748: 2 and S0114: 1.		
HSAZG52	726195	7428	274 - 396	17180		Ile-16 to Gly-21.	L0754: 2 and S0114: 1.		
HSAZG23	950023	7429	120 - 467	17181			AR089: 40, AR061: 7		

	963220	9629	466 - 152	19381	Pro-13 to Asp-20, Thr-27 to Arg-32, Lys-53 to Trp-59, Pro-65 to Gly-70, Gly-77 to Gly-86.	L0523: 2, S0114: 1, L0748: 1 and L0749: 1.		
HSZA42	866817	7430	136 - 324	17182	Ser-16 to Lys-21.	S0114: 1		
HSZA39	705365	7431	131 - 328	17183	Ile-15 to His-21.	S0114: 1 and L0594: 1.		
HSZA06	935451	7432	173 - 364	17184	Gln-9 to Leu-16.	S0114: 1		
HSAYT37	708803	7433	170 - 316	17185	His-23 to Arg-29.	S0114: 1 and L0748: 1.		
HSAYT29	866821	7434	343 - 585	17186		S0114: 1 and L0530: 1.		
HSAYR63	744333	7435	1 - 318	17187		S0114: 1 and L0748: 1.		
HSAYO42	713793	7436	169 - 405	17188	Arg-8 to Phe-16, Gln-25 to Gly-31, Gln-37 to Asn-45.	S0114: 1 and L0754: 1.		
HSAYK93	791546	7437	215 - 433	17189	Arg-16 to His-25, Arg-47 to Phe-57, Pro-60 to Ser-68.	L0749: 2 and S0114: 1.		
HSAXS16	661933	7438	1 - 165	17190	Lys-40 to Ser-45, Cys-49 to Arg-55.	S0114: 1 and L0748: 1.		
HSAXM08	866838	7439	343 - 648	17191	Val-34 to Asp-39, Ser-73 to Ser-87, Lys-93 to Arg-100.	S0114: 1		
	958886	9630	212 - 499	19382				
HSAXJ95	721825	7440	135 - 446	17192		S0114: 1 and L0439: 1.		
HSAXJ93	792516	7441	301 - 453	17193	Glu-6 to Lys-12.	S0114: 1 and L0757: 1.		
HSAXI05	932387	7442	151 - 357	17194	Gln-6 to Asn-20, Val-22 to Thr-36.	S0114: 1 and L0756: 1.		
HSAXH85	784475	7443	32 - 181	17195		S0114: 1 and L0748: 1.		
HSAXG45	457077	7444	67 - 243	17196	Gln-13 to Ser-21.	S0114: 1 and L0756: 1.		
HSAXE42	714040	7445	3 - 227	17197		L0742: 2 and S0114: 1.		
HSAXE33	702673	7446	131 - 334	17198		S0114: 1 and L0753: 1.		
HSAXC55	732368	7447	363 - 202	17199	Lys-24 to Glu-30, Ser-46 to Gln-54.	S0114: 1 and L0600: 1.		
HSAXB89	787069	7448	102 - 224	17200	Leu-2 to Asp-12.	S0114: 1 and L0745: 1.		

HSAWY92	792888	7449	114 - 389	17201	Leu-2 to Thr-7.	S0114: 1, L0748: 1 and L0749: 1.	
HSAWY81	574184	7450	21 - 239	17202	Tyr-21 to Arg-26, Val-48 to Ala-54.	S0114: 1	
HSAWY79	574182	7451	1 - 204	17203	His-56 to Ser-62.	S0114: 1	
HSAWY33	866861	7452	85 - 222	17204		S0114: 1 and L0592: 1.	
HSAWY07	953851	7453	241 - 381	17205		S0114: 1	
HSAWW74	765818	7454	40 - 120	17206		S0114: 1 and L0439: 1.	9p22.2
HSAWU12	968804	7455	72 - 368	17207	Ile-1 to Leu-8, Ser-31 to Thr-40, Glu-69 to Pro-80.	S0114: 1 and L0748: 1.	
HSAWS74	765819	7456	166 - 345	17208	Asn-44 to Arg-57.	S0114: 1 and L0595: 1.	
HSAWS40	711441	7457	37 - 159	17209		S0114: 1 and L0748: 1.	
HSAWR08	959943	7458	3 - 359	17210	Asn-13 to Lys-20, Val-92 to Arg-98.	L0758: 3 and S0114: 1.	
HSAWO08	959938	7459	176 - 319	17211	Ser-20 to Leu-28.	S0114: 1 and L0717: 1.	
HSAWL77	772444	7460	175 - 285	17212		L0748: 4 and S0114: 1.	
HSAWL68	753569	7461	143 - 292	17213	Gly-5 to Glu-10.	S0114: 1 and L0750: 1.	
HSAWK67	526767	7462	212 - 361	17214		S0114: 1	
HSAWK32	418690	7463	14 - 220	17215		S0114: 1	
HSAWK21	954897	7464	14 - 283	17216	Glu-51 to Asn-61.	S0114: 1	
HSAWK20	866872	7465	134 - 307	17217		S0114: 1	
HSAWI13	971727	7466	273 - 539	17218	Pro-15 to Phe-22, Gly-46 to His-55.	S0114: 1, L0779: 1 and L0591: 1.	
HSAWI11	964949	7467	167 - 322	17219		S0114: 1 and L0754: 1.	
HSAWG44	716820	7468	146 - 346	17220	Leu-3 to Lys-9.	L0753: 2, S0114: 1 and L0521: 1.	
HSAWF86	675220	7469	38 - 253	17221		S0114: 1 and L0748: 1.	
HSAWF52	728598	7470	2 - 328	17222		S0114: 1 and L0745: 1.	
HSAWD34	706928	7471	194 - 349	17223		S0114: 1 and L0740: 1.	
HSAWD24	677435	7472	3 - 236	17224		S0114: 1 and L0748: 1.	
HSAWD15	660572	7473	316 - 447	17225		S0114: 1, L0438: 1 and L0439: 1.	
HSAWC55	866890	7474	102 - 347	17226	Ser-1 to Gln-12.	S0114: 1	
HSAWB70	757409	7475	12 - 170	17227		S0114: 1 and L0748: 1.	

HSAVZ82	881166	7476	115 - 291	17228			S0114: 1 and L0748: 1.		
HSAVZ63	574195	7477	113 - 253	17229	Thr-5 to Thr-10.		S0114: 1		
HSAVY10	968230	7478	36 - 212	17230			S0114: 1 and L0601: 1.		
HSAVY02	920721	7479	81 - 422	17231	Thr-11 to Ser-18, Leu-56 to Glu-70.		S0114: 1, L0527: 1 and L0682: 1.		
HSAVX22	674919	7480	116 - 247	17232			S0114: 1 and L0748: 1.		
HSAVW13	862754	7481	115 - 225	17233			S0114: 1 and L0748: 1.		
HSAVV36	866886	7482	2 - 208	17234			S0114: 1, L0748: 1 and L0361: 1.		
HSAVS48	721856	7483	21 - 131	17235			S0114: 1 and L0746: 1.		
HSAVQ73	929276	7484	501 - 695	17236	Leu-47 to Asp-61.		S0114: 1 and L0604: 1.	11q23.3	176000, 261640, 602574, 602574
HSAVP56	733616	7485	3 - 206	17237			S0114: 1 and L0748: 1.		
HSAVO05	932379	7486	35 - 253	17238	Ser-26 to Cys-33, Gly-53 to Pro-62.		S0114: 1 and L0773: 1.		
HSAVN72	574129	7487	3 - 296	17239			S0114: 1 and L0748: 1.		
HSAVN48	526505	7488	1 - 144	17240			S0114: 1		
HSAVN24	574106	7489	2 - 112	17241	Glu-1 to Trp-16, His-18 to Ser-26.		S0114: 1		
HSAVK84	783183	7490	127 - 246	17242			S0114: 1 and L0748: 1.		
HSAV184	783182	7491	84 - 233	17243			L0748: 3, S0114: 1, L0740: 1 and L0749: 1.		
HSAV153	728361	7492	1 - 219	17244	Lys-1 to Leu-25.		L0605: 2 and S0114: 1.		
HSAVG96	796544	7493	86 - 238	17245			S0114: 1 and L0598: 1.		
HSAVF17	664515	7494	221 - 313	17246	Asn-19 to Phe-24.		S0114: 1, L0766: 1, L0665: 1 and L0748: 1.		
HSAVE61	742076	7495	238 - 447	17247	Gly-43 to Ser-57.		S0114: 1 and L0599: 1.		
HSAVA79	781800	7496	1 - 111	17248	Val-2 to Glu-7.		S0114: 1 and L0731: 1.		
HSAVA22	674977	7497	79 - 189	17249	Phe-17 to Gln-23.		S0114: 1, L0521: 1 and L0748: 1.		
HSAUZ11	967609	7498	42 - 338	17250	Arg-13 to Gly-19.		S0114: 1 and L0766: 1.		
HSAUW24	679279	7499	57 - 341	17251	Tyr-46 to Phe-51.		S0114: 1 and L0748: 1.		
HSAUU25	679278	7500	315 - 659	17252	Asn-32 to Pro-40, Ser-49 to Cys-54.		L0748: 3, L0749: 3, L0596: 2 and S0114: 1.		
HSAUQ81	866192	7501	49 - 309	17253			AR051: 41, AR050: 27,		

								AR054: 22 S0114: 1 and L0766: 1.		
	899273	9631	201 - 389	19383				S0114: 1 and L0748: 1.		
HSAUQ54	730928	7502	161 - 373	17254				S0114: 1 and L0754: 1.		
HSAUQ44	716847	7503	61 - 201	17255				AR061: 1, AR089: 1 S0114: 1 and L0686: 1.		
HSAUL84	908440	7504	3 - 302	17256				S0114: 1 and L0591: 1.		
HSAUK72	766240	7505	110 - 280	17257				S0114: 1 and L0750: 1.		
HSAUK48	883205	7506	2 - 238	17258				L0789: 2, S0114: 1, L0748: 1 and L0599: 1.		
HSAUI23	422961	7507	485 - 129	17259				S0114: 1 and L0599: 1.		
	843427	9632	405 - 608	19384				S0114: 1, L0749: 1 and L0589: 1.		
HSAUH06	954543	7508	2 - 211	17260				S0114: 1, L0740: 1 and L0747: 1.		
HSAUH02	917314	7509	3 - 224	17261				S0114: 1 and L0748: 1.		
HSAUG74	765859	7510	358 - 483	17262				S0114: 1		
HSAUD02	920827	7511	37 - 237	17263				S0114: 1 and L0748: 1.		
HSAUB69	514840	7512	179 - 406	17264				S0114: 1 and L0748: 1.		
	567319	9633	50 - 229	19385				S0114: 1 and L0748: 1.		
HSAUB39	705677	7513	157 - 357	17265				L0745: 2 and S0114: 1.		
HSAJZ81	778268	7514	101 - 268	17266				L0779: 4, L0758: 2, S0114: 1 and L0749: 1.		
HSATY22	674986	7515	3 - 401	17267				S0114: 1 and L0748: 1.		
HSAUW91	790394	7516	223 - 333	17268				S0114: 1 and L0740: 1.		
HSATW51	725879	7517	284 - 529	17269				S0114: 1 and L0748: 1.		
HSATV96	843424	7518	526 - 681	17270				S0114: 1 and L0766: 1 and L0779: 1.		
HSATS25	866949	7519	2 - 184	17271				S0114: 1 and L0748: 1.		
HSATQ55	732406	7520	57 - 350	17272				S0114: 1 and L0748: 1.		



HSATM64	862436	7521	356 - 640	17273	Gly-1 to Gly-8, Ser-26 to Ala-39, Ser-52 to Arg-58, Ser-63 to Leu-71, Ala-90 to Ser-95.	L0747: 3, L0756: 2, S0114: 1 and L0750: 1.		
HSATM19	866954	7522	281 - 448	17274		S0114: 1 and L0748: 1.		
HSATM09	456326	7523	42 - 176	17275		S0114: 1 and L0599: 1.		
HSATL02	920825	7524	3 - 227	17276	Arg-1 to Asn-8, Glu-10 to Asp-16.	L0518: 3 and S0114: 1.		
HSATL58	866955	7525	124 - 429	17277	Pro-51 to Pro-58.	S0114: 1 and L0509: 1.		
HSATE53	728414	7526	224 - 448	17278		L0748: 3 and S0114: 1.		
HSATC79	602167	7527	269 - 424	17279	Ser-14 to Thr-23.	S0114: 1 and L0600: 1.		
HSATC72	761511	7528	219 - 332	17280	Asp-14 to Thr-20.	L0731: 2 and S0114: 1.		
HPSAD92	790524	7529	77 - 298	17281		H0074: 1 and L0748: 1.		
HPSAB26	429558	7530	142 - 282	17282	Asp-1 to Gly-7, Pro-41 to Gln-47.	H0074: 1		
HPSAB24	518747	7531	171 - 341	17283	Pro-5 to Ala-13, Pro-15 to Thr-24.	H0074: 1		
HPSAB15	503600	7532	126 - 401	17284		L0748: 2, L0749: 2 and H0074: 1.		
HPSAA94	793000	7533	356 - 75	17285		H0074: 1		
HPSAA93	867387	7534	2 - 178	17286		H0074: 1		
HPSAA91	503543	7535	275 - 6	17287	Ser-31 to Pro-37, Pro-52 to Trp-60, Leu-66 to Leu-71.	H0074: 1		
HPSAA75	503544	7536	317 - 138	17288		H0074: 1 and L0748: 1.		
HPSAA41	503569	7537	257 - 355	17289	Leu-1 to Asn-11.	H0074: 1		
HPSAA30	503567	7538	29 - 253	17290	Val-19 to Met-29.	L0766: 3 and H0074: 1.		
HPSAA03	960941	7539	529 - 362	17291		H0074: 1		
HNNTA24	911178	7540	189 - 596	17292	Leu-98 to Ala-105, Pro-120 to Gly-127.	AR050: 87, AR054: 77, AR051: 70 H0679: 1		
	972489	9634	182 - 589	19386	Leu-98 to Ala-105, Pro-120 to Gly-127.			
HNHPF67	859817	7541	191 - 475	17293		S0216: 1 and L0748: 1.		
HNHPD68	974350	7542	13 - 252	17294	Thr-1 to His-12.	S0216: 1		

HNHOX01	915303	7543	3 - 176	17295	Glu-12 to Ser-18, Arg-24 to Pro-35, Pro-43 to Arg-49.	S0216: 1		
HNHOV24	974344	7544	138 - 278	17296	Lys-21 to Pro-27, Arg-41 to Thr-47.	L0532: 1 and S0216: 1.		
HNHOQ36	859824	7545	108 - 473	17297	Ala-47 to Gly-52, Pro-87 to Ser-98.	L0493: 2 and S0216: 1.		
HNHOP92	790911	7546	2 - 256	17298	Gly-1 to Ser-7, Glu-9 to Asp-18.	S0216: 1 and L0589: 1.		
HNHOP88	974327	7547	3 - 215	17299	Gln-43 to His-51.	S0216: 1		
HNHOP32	974330	7548	293 - 445	17300		S0216: 1		
HNHOI63	838790	7549	103 - 336	17301	Ser-61 to Pro-72.	L0521: 1 and S0216: 1.		
HNHOI07	952285	7550	167 - 358	17302	Asn-1 to Asn-10, Glu-12 to Val-20, Trp-29 to Gly-39, Ser-53 to Thr-60.	S0216: 1 and L0592: 1.		
HNHOF94	948720	7551	2 - 508	17303	Pro-94 to Ser-102.	AR051: 25, AR050: 24, AR054: 20, AR089: 17, AR061: 9		
HNHNT20	773683	7552	133 - 279	17304		S0216: 1	6p24	134570
HNHNQ08	958377	7553	148 - 429	17305		S0216: 1 and L0748: 1.		
HNHNP81	928378	7554	143 - 514	17306	Ile-1 to Ser-16.	AR051: 23, AR054: 11, AR050: 9, AR061: 8, AR089: 5		
HNHNP66	918684	7555	3 - 326	17307		S0216: 1		
HNHNO01	915358	7556	200 - 367	17308		S0216: 1 and L0749: 1.		
HNHNM39	950971	7557	249 - 88	17309	Val-2 to Thr-12.	S0216: 1 and L0750: 1.		
HNHNK02	918715	7558	225 - 512	17310	Leu-33 to Ser-40.	L0370: 1 and S0216: 1.		
HNHNI24	859836	7559	146 - 403	17311		L0775: 1, S0216: 1, L0438: 1 and L0752: 1.		
HNHNI09	800482	7560	223 - 483	17312	Ser-28 to Arg-33.	S0216: 1		
HNHNH51	974343	7561	1 - 255	17313		S0216: 1		
HNHND85	870121	7562	71 - 529	17314	Pro-21 to Ser-26, His-29 to Arg-35.	L0753: 2 and S0216: 1.		

							Pro-41 to Leu-50, Thr-87 to Arg-99.			
HNHND81	974334	7563	2 - 229	17315			Thr-24 to Ser-29, Pro-31 to Thr-40, Leu-44 to Val-61.		S0216: 1	
HNHND07	952273	7564	186 - 320	17316					S0216: 1 and L0748: 1.	
HNHNB92	790945	7565	34 - 342	17317			Pro-47 to Gly-55.		S0216: 1 and L0777: 1.	
HNHNB85	783887	7566	149 - 322	17318					S0216: 1 and L0745: 1.	
HNHNB02	918709	7567	124 - 234	17319					S0216: 1 and L0748: 1.	
HNHNMZ49	859842	7568	220 - 426	17320					S0216: 1 and L0589: 1.	
HNHMY52	975207	7569	2 - 190	17321			Asn-7 to Ile-25, Ala-29 to His-41.		S0216: 1	
HNHMS26	975206	7570	155 - 286	17322			Ile-33 to Ser-41.		S0216: 1	
HNHMQ86	784986	7571	2 - 151	17323			Pro-1 to Thr-7, Pro-26 to Tyr-31.		S0216: 1 and L0731: 1.	
HNHMQ28	859847	7572	6 - 131	17324					S0216: 1 and L0748: 1.	
HNHMF02	918649	7573	2 - 169	17325			Phe-1 to Phe-7, Lys-23 to Lys-30.		S0216: 1 and L0758: 1.	
HNHLY58	859849	7574	571 - 323	17326					L0365: 1 and S0216: 1.	
HNHLW34	859850	7575	353 - 66	17327			Glu-9 to Lys-19.		S0216: 1 and L0438: 1.	
HNHLW10	963542	7576	16 - 213	17328			Lys-8 to Cys-14.		S0216: 1 and L0361: 1.	
HNHLR36	859851	7577	402 - 587	17329					L0520: 1 and S0216: 1.	
HNHLQ07	952279	7578	387 - 566	17330					L0749: 3 and S0216: 1.	
HNHLG36	855071	7579	335 - 556	17331					L0659: 1, L0663: 1, S0216: 1 and L0601: 1.	
HNHLD70	756668	7580	3 - 221	17332			Ser-10 to Thr-21, Pro-23 to Asn-34, Leu-42 to Thr-51.		S0216: 1 and L0592: 1.	
HNHLC01	915363	7581	277 - 519	17333					L0385: 1 and S0216: 1.	
HNHLB03	923091	7582	2 - 256	17334			Ala-17 to Cys-32, Gln-38 to Lys-47, Ser-58 to Ala-64, Arg-66 to Trp-72.		L0741: 4 and S0216: 1.	
HNHKT86	785104	7583	379 - 44	17335					L0439: 2 and S0216: 1.	
HNHKQ50	723868	7584	84 - 434	17336					L0748: 2, L0766: 1, S0216: 1 and L0779: 1.	

HNHKKP03	923276	7585	350 - 679	17337	Pro-20 to His-29.	L0758: 3 and S0216: 1.	
HNHKK161	859925	7586	335 - 505	17338		L0766: 1, S0216: 1 and L0740: 1.	
HNHKS54	730706	7587	189 - 1	17339		S0053: 1 and L0439: 1.	
HNHHR83	781195	7588	36 - 284	17340		S0053: 1 and L0439: 1.	
HNHHC85	784345	7589	137 - 442	17341	Asp-1 to Pro-11, Gly-27 to Cys-34.	S0053: 1, L0748: 1 and L0749: 1.	
HNHHL58	736064	7590	136 - 501	17342	Ile-2 to Arg-8, Phe-21 to Gln-30.	S0053: 1 and L0596: 1.	
HNHHG53	830068	7591	172 - 336	17343		S0053: 1 and L0591: 1.	
HNHHF86	784698	7592	168 - 383	17344		S0053: 1	
HNHHF61	741836	7593	86 - 316	17345		S0053: 1	
HNHHF52	726576	7594	101 - 292	17346	Thr-35 to Pro-40.	S0053: 1	
HNHHF39	705407	7595	149 - 346	17347	Glu-16 to Pro-21, Pro-30 to Pro-36, Arg-47 to Ser-58, Leu-60 to Lys-65.	S0053: 1	
HNHHF38	709278	7596	41 - 184	17348	Ile-38 to Pro-47.	S0053: 1	
HNHHF37	708714	7597	2 - 229	17349		S0053: 1	
HNHHF28	694365	7598	3 - 227	17350	Glu-5 to Pro-14.	S0053: 1 and L0600: 1.	
HNHHF13	657245	7599	138 - 55	17351	Pro-1 to Lys-12, Lys-18 to Leu-24.	S0053: 1	
HNHHF03	924221	7600	101 - 193	17352	Ser-10 to Val-16.	S0053: 1	
HNHHFC61	741839	7601	89 - 196	17353	Pro-1 to Gln-8.	L0758: 2, S0053: 1 and L0602: 1.	
HNHGX61	948731	7602	136 - 291	17354	Pro-26 to Lys-34, Pro-47 to Gln-52.	S0053: 1 and L0589: 1.	
HNHGV62	743400	7603	1 - 228	17355	Ser-61 to Pro-70.	S0053: 1	
HNHGU56	859953	7604	117 - 440	17356		L0369: 1 and S0053: 1.	
HNHGT92	496480	7605	12 - 164	17357		S0053: 1	
HNHGT84	781977	7606	110 - 307	17358		S0053: 1	
HNHGT80	775409	7607	45 - 260	17359	Glu-8 to Lys-14, Arg-20 to Gln-25.	S0053: 1	
HNHGT15	660304	7608	144 - 311	17360	Ser-13 to Gln-27.	L0589: 2 and S0053: 1.	
HNHGT09	625615	7609	1 - 243	17361	Thr-2 to Asp-10,	S0053: 1	

HNHGS24	677228	7610	350 - 748	17362	Asp-16 to Ile-21, Ile-25 to Lys-36.	L0749: 3, L0748: 2 and S0053: 1.		
HNHGO45	582523	7611	547 - 879	17363	Cys-51 to Ser-57, Arg-68 to His-77, Asn-93 to His-102.	L0748: 2 and S0053: 1.	11p15.5-p15.4	125852, 126452, 126452, 130650, 141900, 141900, 141900, 141900, 141900, 141900, 142000, 142000, 142200, 142250, 142270, 150000, 176730, 176730, 176730, 190020, 191290, 192500, 192500, 194071, 194071, 204500, 257200, 257200, 600856, 601680, 602631, 602631
HNHGN27	859972	7612	3 - 314	17364	Glu-5 to Ser-14, Pro-22 to Cys-27.	L0758: 2 and S0053: 1.		
HNHGI60	740396	7613	159 - 488	17365	Glu-92 to Lys-103.	L0745: 4 and S0053: 1.		
HNHGI03	923829	7614	1 - 309	17366	Glu-92 to Lys-103.	S0053: 1		
HNHGH83	781208	7615	2 - 241	17367	Ala-8 to Leu-13, Lys-26 to Val-32.	S0053: 1 and L0592: 1.		
HNHGH22	859983	7616	3 - 251	17368	His-1 to Thr-7, Glu-28 to Asn-37.	S0053: 1 and L0748: 1.		
HNHGG39	561093	7617	117 - 329	17369		AR051: 10, AR050: 10, AR054: 9 S0053: 1 and L0361: 1.		
HNHGF28	686735	7618	18 - 443	17370	Pro-5 to Gly-12.	S0053: 1 and L0740: 1.		
HNHGE91	790212	7619	3 - 242	17371	Glu-18 to Ser-29, Val-31 to Arg-41, Gly-47 to Phe-54.	S0053: 1		
HNHGE81	777955	7620	44 - 295	17372	Lys-29 to Trp-40.	S0053: 1		

HNHGE79	775214	7621	107 - 286	17373	Glu-29 to Asp-35.	S0053: 1	
HNHGE68	753052	7622	1 - 174	17374	Gly-1 to Ser-7, Thr-12 to Lys-19.	S0053: 1	
HNHGE44	683294	7623	1 - 339	17375	Thr-50 to Glu-59.	L0589: 3 and S0053: 1.	
HNHGE31	698046	7624	59 - 169	17376		S0053: 1	
HNHGE24	677234	7625	50 - 154	17377	Pro-16 to Tyr-24.	S0053: 1	
HNHGE12	970722	7626	1 - 396	17378	Gly-1 to Arg-17, Ser-24 to Cys-33, Thr-78 to Arg-88.	S0053: 1	
HNHGD08	959494	7627	1 - 249	17379	Ala-24 to Glu-30.	S0053: 1 and L0603: 1.	
HNHGC92	792740	7628	109 - 285	17380	Asn-22 to Lys-31.	S0053: 1	
HNHGC91	790199	7629	103 - 225	17381	Ser-1 to Gln-9, Pro-15 to Thr-27, His-29 to Tyr-39.	S0053: 1	
HNHGC45	720747	7630	3 - 359	17382	Cys-20 to Ile-27, Thr-45 to Gly-51, Gly-93 to Gly-101.	L0617: 1, L0157: 1 and S0053: 1.	
HNHGC32	699286	7631	1 - 192	17383	Lys-36 to Tyr-41.	S0053: 1	
HNHGC21	670949	7632	58 - 423	17384	Gln-80 to Leu-87.	S0053: 1	
HNHGC20	859991	7633	14 - 247	17385	Arg-5 to Glu-10.	S0053: 1	
HNHGC19	668692	7634	2 - 250	17386		S0053: 1	
HNHGC08	962224	7635	53 - 271	17387	Gln-11 to Asp-19.	S0053: 1	
HNHGC07	953414	7636	44 - 328	17388	Ser-14 to Leu-20, Arg-62 to Gly-68.	S0053: 1	
HNHGB12	970726	7637	377 - 676	17389		L0761: 1, S0053: 1 and L0758: 1.	
HNHGA53	973803	7638	111 - 260	17390		S0053: 1	
HNHFX68	752305	7639	3 - 188	17391	Asp-19 to Glu-28, Ser-38 to Arg-44, Gly-51 to Lys-62.	S0053: 1 and L0592: 1.	
HNHFX08	959475	7640	287 - 448	17392		L0365: 1 and S0053: 1.	
HNHFX10	961275	7641	55 - 222	17393	Gln-20 to Glu-26, Ser-32 to Glu-47.	S0053: 1	
HNHFX08	959484	7642	33 - 218	17394	Ala-9 to Asn-17.	S0053: 1 and L0592: 1.	
HNHFX07	953403	7643	111 - 314	17395	Tyr-17 to His-22.	S0053: 1 and L0779: 1.	

HNHFV49	975415	7644	520 - 768	17396		AR061: 12, AR089: 5 S0053: 1		
HNHFV30	566339	7645	2 - 151	17397	Pro-23 to Trp-32.	AR051: 103, AR050: 100, AR054: 83 S0053: 1		
HNHFU64	937179	7646	264 - 467	17398	Pro-37 to Ala-47.	AR051: 11, AR061: 3, AR089: 2, AR050: 2, AR054: 1 S0053: 1		
HNHFU56	733513	7647	155 - 352	17399	Gln-6 to Ser-15, Pro-17 to Ala-29.	S0053: 1 and L0748: 1.		
HNHFU12	970882	7648	220 - 387	17400		S0053: 1 and L0608: 1.		
HNHFR69	757646	7649	256 - 429	17401		S0053: 1 and L0589: 1.		
HNHFP94	888666	7650	3 - 287	17402	Lys-47 to Pro-54.	AR051: 88, AR050: 84, AR054: 67 S0053: 1		
HNHFP89	786967	7651	129 - 284	17403		S0053: 1 and L0745: 1.		
HNHFP03	924606	7652	1 - 204	17404	Pro-23 to Gly-29.	L0766: 1 and S0053: 1.		
HNHEM74	506283	7653	1 - 270	17405	Gly-12 to Trp-17.	S0053: 1		
HNHEM54	486847	7654	341 - 514	17406	Lys-1 to Asp-9, Lys-15 to Glu-21, Glu-29 to Gly-34.	S0053: 1		
	490923	9635	631 - 329	19387				
HNHFL96	576414	7655	160 - 495	17407	Ser-1 to Lys-10, Gly-16 to Gly-27.	S0053: 1		
HNHFL28	973273	7656	347 - 469	17408	Ser-30 to Gly-38.	S0053: 1		
HNHFH24	903741	7657	28 - 480	17409	His-8 to Gly-18, Ala-39 to Gly-45, Pro-94 to Glu-101.	AR054: 20, AR050: 15, AR061: 7, AR089: 4, AR051: 1 S0053: 1		
HNHFH23	675942	7658	75 - 734	17410	Val-24 to Glu-29, Ser-62 to Ser-68, Ala-75 to Ser-81, Lys-138 to Phe-145.	L0740: 2 and S0053: 1.		
HNHFF79	638126	7659	153 - 281	17411		AR051: 21, AR050: 8 S0053: 1		

HNHFF30	692811	7660	2 - 178	17412	Asn-37 to Cys-43, Gly-50 to Phe-57.	S0053: 1 and L0748: 1.		
HNHFE01	916782	7661	186 - 308	17413		L0758: 2 and S0053: 1.		
HNHFD68	576448	7662	1 - 147	17414	Pro-19 to Gly-32.	AR050: 7, AR054: 6, AR051: 3 S0053: 1		
HNHFB21	842707	7663	9 - 125	17415	Arg-10 to Thr-20.	S0053: 1		
HNHEW83	781217	7664	256 - 498	17416	Lys-2 to Thr-8, Ser-12 to Trp-25, Trp-33 to Cys-39.	L0748: 2 and S0053: 1.		
HNHEW18	666524	7665	54 - 197	17417		S0053: 1, L0438: 1 and L0748: 1.	5	
HNHEU20	668909	7666	72 - 275	17418		S0053: 1 and L0740: 1.		
HNHEQ03	535701	7667	68 - 277	17419	Gly-34 to Ser-41.	S0053: 1		
	535815	9636	68 - 277	19388	Gly-34 to Ser-41.			
	923484	9637	74 - 283	19389	Gly-34 to Ser-41.			
HNHEP86	490390	7668	505 - 278	17420	Glu-1 to Ser-9, Lys-14 to Leu-20, Asp-44 to Gly-57.	S0053: 1		
	785285	9638	71 - 364	19390	Gln-1 to Ala-13, Pro-52 to Gly-57, Leu-84 to Gln-90, Pro-92 to Asp-98.			
HNHEL72	760706	7669	18 - 164	17421		S0053: 1 and L0589: 1.		
HNHEL34	706636	7670	248 - 553	17422	Gln-12 to Met-20, Pro-26 to Gly-31, Phe-39 to Asn-44, Glu-50 to Thr-64.	L0439: 2, S0053: 1 and L0751: 1.		
HNHEL27	506284	7671	114 - 380	17423	Arg-11 to Asn-20.	S0053: 1		
HNHEK69	757649	7672	244 - 402	17424		S0053: 1 and L0439: 1.		
HNHEJ78	800165	7673	20 - 154	17425		S0053: 1		
HNHEJ20	669763	7674	305 - 472	17426	Ser-1 to Trp-15.	S0053: 1 and L0439: 1.		
HNHEI90	888553	7675	22 - 168	17427	Arg-25 to Gln-34.	AR054: 16, AR050: 12, AR051: 8 S0053: 1		
HNHEI37	419752	7676	35 - 205	17428	Pro-46 to Met-51.	L0766: 1 and S0053: 1.		



HNHEH28	973296	7677	22 - 198	17429	Arg-5 to His-11, Thr-13 to Cys-22, Cys-50 to Thr-55.	L0617: 1 and S0053: 1.		
HNHEG71	760464	7678	23 - 190	17430	Leu-7 to Asp-17, Gly-19 to His-27, Pro-33 to Glu-49.	S0053: 1		
HNHEF53	576417	7679	201 - 362	17431	Met-18 to Cys-23.	S0053: 1		
HNHEF08	958854	7680	493 - 230	17432		S0053: 1		
	958883	9639	70 - 339	19391	Ser-46 to Ser-51.			
HNHEE03	924619	7681	351 - 485	17433		S0053: 1 and L0759: 1.		
HNHED88	576529	7682	3 - 206	17434		AR051: 22, AR054: 15, AR050: 11 S0053: 1		
HNHED18	666594	7683	450 - 599	17435	Ser-17 to Asp-23, Ile-32 to Arg-38.	L0749: 2, S0053: 1 and L0748: 1.		
HNHED25	973295	7684	109 - 330	17436	Thr-50 to Gly-55.	S0053: 1		
HNHDY14	542062	7685	151 - 396	17437		AR054: 14, AR051: 1, AR050: 1 S0053: 1 and L0759: 1.		
	753132	9640	156 - 380	19392				
HNHDX57	734933	7686	1 - 219	17438		S0053: 1 and L0752: 1.		
HNHDX30	692875	7687	302 - 454	17439		S0053: 1 and L0748: 1.		
HNHDW94	883870	7688	257 - 568	17440	Lys-8 to Pro-17, Leu-92 to Ala-99.	L0509: 1 and S0053: 1.		
HNHDW16	422903	7689	246 - 1	17441		L0589: 2 and S0053: 1.		
	661809	9641	91 - 339	19393	Arg-1 to Ser-17, Arg-35 to Ser-40, Gly-64 to Leu-74.			
HNHDV95	559341	7690	67 - 288	17442	Ala-19 to Leu-25.	AR054: 15, AR050: 3 S0053: 1		
	860083	9642	58 - 279	19394	Ala-19 to Leu-25.			
HNHDV93	792467	7691	2 - 349	17443		L0748: 4 and S0053: 1.		
HNHDV16	863116	7692	185 - 3	17444	Thr-30 to Thr-51.	AR051: 28, AR050: 23, AR054: 20 S0053: 1		
HNHDT83	974277	7693	55 - 198	17445		S0053: 1		

HNHDT33	576483	7694	2 - 166	17446		S0053: 1		
HNHDT32	573332	7695	3 - 122	17447	Ser-12 to Lys-24, Lys-29 to Arg-35.	S0053: 1		
HNHDT19	573355	7696	2 - 130	17448	Ser-20 to Pro-26.	S0053: 1		
HNHDT12	576464	7697	3 - 92	17449		S0053: 1		
HNHDAQ05	932223	7698	2 - 382	17450	Gly-14 to Arg-26, Thr-43 to Arg-58, Pro-63 to Gly-71, Lys-86 to Gly-95.	S0005: 2, S0053: 1 and L0589: 1.		
HNHDM15	660509	7699	215 - 427	17451	Thr-40 to Ser-46, Pro-48 to Pro-58, Ser-65 to Glu-70.	L0747: 2 and S0053: 1.		
HNHDAH40	574312	7700	74 - 319	17452		S0053: 1		
HNHDAH03	924895	7701	68 - 334	17453	Gln-1 to Leu-12, Ser-16 to His-21.	S0053: 1		
HNHDF07	953883	7702	92 - 379	17454		S0053: 1 and L0361: 1.		
HNHDD52	520297	7703	241 - 71	17455	Pro-49 to Lys-57.	AR050: 2, AR051: 0 S0053: 1		
HNHDC29	904546	7704	24 - 215	17456	Gly-1 to Gly-15, Gly-18 to His-26, Pro-43 to Gly-62.	S0053: 1 17q21	109270, 109270, 109270, 109270, 109270, 113705, 113705, 144200, 148065, 148066, 148066, 148067, 148067, 148069, 148080, 154275, 168610, 171190, 176705, 185800, 200350, 221820, 232200, 249000, 252920, 253250, 600119, 600119, 601363, 601844	
HNHDB69	757760	7705	207 - 416	17457		S0053: 1 and L0756: 1.		
HNHCZ84	782897	7706	317 - 105	17458		S0053: 1		
	782898	9643	99 - 290	19395	Val-36 to Gly-43.			

	782939	9644	453 - 265	19396	Thr-5 to Glu-11, Lys-28 to Arg-36.			
HNHCY96	796547	7707	428 - 697	17459	Thr-72 to Pro-77, Pro-82 to Phe-87.	S0053: 1		
HNHCY07	953878	7708	49 - 339	17460	Pro-1 to Val-7, Asp-19 to Tyr-25, Lys-39 to Phe-46.	S0053: 1 and L0780: 1.		
HNHCY06	936061	7709	40 - 150	17461		S0053: 1 and L0759: 1.		
HNHCU08	959944	7710	154 - 294	17462		S0053: 1 and L0599: 1.		
HNHCO94	796745	7711	145 - 267	17463		S0053: 1 and L0600: 1.		
HNHCO69	754189	7712	12 - 362	17464		S0053: 1 and L0777: 1.		
HNHCO39	705641	7713	55 - 294	17465	Arg-18 to Val-23.	S0053: 1 and L0592: 1.		
HNHCM69	757751	7714	196 - 366	17466	Cys-8 to Cys-16.	S0053: 1 and L0748: 1.		
HNHCJ11	964952	7715	89 - 211	17467	Leu-9 to Trp-14.	S0053: 1		
HNHC132	861673	7716	183 - 593	17468	Lys-17 to Thr-23, His-95 to Thr-101.	AR051: 23, AR050: 14, AR061: 10, AR054: 4, AR089: 3 S0053: 1		
	956105	9645	963 - 553	19397	Lys-17 to Thr-23, His-95 to Thr-101.			
HNHCG43	574074	7717	10 - 168	17469	Thr-31 to Gly-37.	S0053: 1		
HNHCG32	574080	7718	90 - 161	17470	Ser-6 to Lys-14.	S0053: 1		
HNHCD33	702679	7719	488 - 655	17471		L0748: 6 and S0053: 1.		
HNHCA27	668255	7720	268 - 465	17472		AR054: 16, AR051: 16, AR050: 3 S0053: 1		
HNHBZ39	860113	7721	114 - 284	17473		AR054: 19, AR050: 18, AR051: 13 S0053: 1		
HNHBX96	796539	7722	61 - 252	17474	Thr-8 to Phe-18, Ser-23 to Asn-34, Ala-37 to Leu-46.	S0053: 1 and L0748: 1.		
HNHBW54	583752	7723	186 - 299	17475		S0053: 1		
	840101	9646	235 - 2	19398	Arg-1 to Ala-9, Phe-18 to Asp-27.			
HNHBU02	920662	7724	74 - 280	17476		S0053: 1 and L0589: 1.		

HNHBO78	574093	7725	2 - 160	17477			S0053: 1		
HNHBK57	490789	7726	296 - 60	17478			S0053: 1		
	513489	9647	2 - 211	19399					
HNHB148	860125	7727	243 - 533	17479			S0053: 1		
HNHB102	918387	7728	686 - 474	17480			S0053: 1		
	919069	9648	314 - 3	19400		His-34 to Ser-44, Cys-80 to Glu-86, Pro-95 to Gly-101.			
HNHBG42	714044	7729	241 - 351	17481		Arg-21 to Gln-30.	S0053: 1, L0740: 1 and L0777: 1.		
HNHBF78	773747	7730	76 - 300	17482			S0053: 1 and L0589: 1.		
HNHBF47	949027	7731	923 - 501	17483		His-1 to Thr-14.	AR051: 11, AR054: 8, AR050: 7, AR061: 1, AR089: 0 S0053: 1	1	
HNHBE75	766526	7732	82 - 243	17484		Cys-3 to Leu-20.	L0439: 2 and S0053: 1.		
HNHBD73	764293	7733	259 - 134	17485		His-1 to Tyr-7, Ser-17 to Gly-24.	S0053: 1		
HNHBC77	772452	7734	67 - 273	17486			S0053: 1 and L0750: 1.		
HNHAP69	574295	7735	58 - 270	17487		Asn-2 to Arg-9.	S0053: 1		
HNHAP55	574386	7736	2 - 163	17488		Ala-1 to His-11.	S0053: 1		
HNHAP32	574393	7737	99 - 281	17489			S0053: 1		
HNHAP08	959961	7738	132 - 239	17490			S0053: 1		
HNHAM81	574402	7739	1 - 90	17491		Asn-20 to Gln-30.	S0053: 1		
HNHAM80	574404	7740	56 - 160	17492			S0053: 1		
HNHAM33	571334	7741	3 - 95	17493		Thr-1 to Lys-6, Leu-22 to Leu-30.	L0633: 3 and S0053: 1.		
HNHAK41	890594	7742	2 - 166	17494			AR050: 14, AR051: 12, AR054: 2 S0053: 1		
HNHAI41	712605	7743	66 - 233	17495			L0745: 3 and S0053: 1.		
HNHAI07	954088	7744	1 - 168	17496		Arg-1 to Asp-16, Leu-27 to Gly-32.	L0761: 1 and S0053: 1.		
HNHAF61	742116	7745	189 - 686	17497		Pro-5 to Trp-10, Glu-62 to Gly-67, Ala-124 to Asn-129.	AR061: 6, AR089: 3 L0438: 2, L0439: 2, L0752: 2, L0365: 1 and S0053: 1.		

	955094	9649	378 - 1	19401	Thr-56 to Pro-64, Pro-77 to Thr-87, Thr-95 to Glu-100, Asp-112 to Thr-118.			
HNHAE19	527975	7746	429 - 112	17498	Arg-24 to Lys-37, Ser-59 to Pro-70.	L0766: 5, L0788: 1, S0053: 1 and L0747: 1.		
HNHAB36	596822	7747	913 - 653	17499	Arg-19 to Arg-26, Gly-44 to Thr-55, Glu-68 to His-75, Trp-82 to Asp-87.	S0053: 1		
	946565	9650	199 - 2	19402				
	946634	9651	3 - 170	19403	Thr-6 to Cys-17, Gly-23 to Gly-28.			
HNHAB15	973675	7748	420 - 623	17500	Cys-1 to Ser-6.	S0053: 1		
HNGPR43	860142	7749	2 - 304	17501		S0428: 1 and L0600: 1.		
HNGPP74	974046	7750	303 - 557	17502	Gln-1 to Ser-6, Asp-30 to Lys-35.	S0428: 1		
HNGPN54	947104	7751	478 - 113	17503	Pro-16 to Ala-31, Pro-59 to Gly-85, Pro-87 to Pro-96.	AR061: 4, AR089: 1 S0428: 1		
HNGPM65	972821	7752	64 - 270	17504	Arg-1 to Lys-6, Ile-14 to Asn-22.	S0428: 1		
HNGPL75	950134	7753	870 - 559	17505		AR061: 7, AR089: 3 L0766: 1, S0428: 1 and L0592: 1.		
HNGPL05	974049	7754	43 - 270	17506		S0428: 1		
HNGPI87	860162	7755	229 - 426	17507		S0428: 1 and L0589: 1.		
HNGPH83	974045	7756	1 - 147	17508	Tyr-4 to Ile-16.	S0428: 1		
HNGOZ40	969158	7757	13 - 330	17509	Gln-5 to Phe-15, Pro-32 to Ala-39, Pro-49 to Tyr-67.	S0428: 1 and L0588: 1.		
HNGOY68	860169	7758	2 - 343	17510	Gly-21 to Leu-30, Pro-51 to Ser-56, Thr-62 to Ala-67.	L0761: 1 and S0428: 1.		
HNGOY32	954991	7759	243 - 590	17511		L0365: 1 and S0428: 1.		
HNGOP63	973415	7760	126 - 557	17512	Pro-22 to Leu-30.	S0428: 1		

HNGOP40	860182	7761	102 - 326	17513	Ser-7 to Ala-14, Arg-25 to His-31, Pro-48 to Gly-62, Gln-68 to Lys-75.	S0428: 1 and L0589: 1.		
HNGOO88	860179	7762	95 - 271	17514		S0428: 1 and L0748: 1.		
HNGON56	974038	7763	520 - 738	17515	Glu-1 to Leu-11.	S0428: 1		
HNGON24	860183	7764	205 - 468	17516		L0369: 1 and S0428: 1.		
HNGOK04	972752	7765	3 - 611	17517	Thr-6 to Ser-13, Leu-52 to Gly-61, Arg-66 to Arg-72, Arg-131 to Pro-136, Arg-145 to Tyr-150, Gly-163 to Ser-168, Ala-186 to Gly-193.	S0428: 1		
HNGOF70	860195	7766	7 - 243	17518		L0766: 2 and S0428: 1.		
HNGNY72	860198	7767	167 - 385	17519	Met-20 to Gly-26.	L0385: 1 and S0428: 1.		
HNGNY16	806017	7768	312 - 590	17520	Pro-35 to Trp-43.	S0428: 1 and L0756: 1.		
HNGNY02	918626	7769	42 - 470	17521	Gln-1 to Gly-9, Gly-40 to Asn-53, Arg-67 to Gln-72, His-100 to Trp-107, Arg-135 to Pro-140.	L0385: 1, L0365: 1 and S0428: 1.		
HNGNX66	974035	7770	391 - 618	17522	Gly-1 to Val-30, Lys-37 to Glu-53.	S0428: 1		
HNGNU85	974037	7771	262 - 594	17523	Arg-27 to Ser-32.	S0428: 1		
HNGNS91	973432	7772	245 - 496	17524	Lys-30 to Asp-37.	S0428: 1		
HNGNN81	974124	7773	96 - 287	17525	Leu-3 to Gly-13, Ala-17 to Pro-26, Glu-44 to Lys-49.	S0428: 1		
HNGNN01	915226	7774	282 - 512	17526		S0428: 1 and L0758: 1.		
HNGNJ46	860212	7775	135 - 470	17527	Leu-12 to Cys-19, Gln-27 to Asn-35.	L0779: 2, L0663: 1, S0428: 1 and L0747: 1.		
HNGNI78	860216	7776	186 - 380	17528	Pro-38 to Trp-44.	S0428: 1 and L0596: 1.		
HNGND75	974968	7777	169 - 450	17529	Pro-3 to Gln-13, Gly-39 to Cys-44, Thr-57 to Trp-66.	S0428: 1		

HNGND01	915294	7778	446 - 580			Thr-81 to Ser-87.		S0428: 1 and L0749: 1.	
HNGNA49	974907	7779	371 - 592	17530	17531			S0428: 1	
HNGMY91	974056	7780	282 - 575	17532	17532	Val-23 to Gly-29, Ser-48 to Cys-58.		S0428: 1	
HNGMW65	950173	7781	295 - 26	17533	17533	Ile-26 to Thr-37.		AR089: 119, AR061: 16 S0428: 1	
HNGMT40	930430	7782	2 - 151	17534	17534			L0662: 1, S0428: 1 and L0759: 1.	
HNGMM11	966099	7783	40 - 375	17535	17535	Pro-1 to Leu-13, Pro-19 to Pro-27.		S0428: 1 and L0777: 1.	
HNGML12	934389	7784	3 - 179	17536	17536			L0761: 1, L0766: 1, S0428: 1 and L0756: 1.	
HNGMF02	955660	7785	394 - 642	17537	17537			L0809: 2, L0783: 1, L0791: 1, S0428: 1, L0740: 1 and L0752: 1.	
HNGME04	927020	7786	200 - 592	17538	17538			S0428: 1, L0748: 1 and L0749: 1.	
HNGMD92	790887	7787	71 - 247	17539	17539	Arg-39 to Asp-56.		S0428: 1 and L0361: 1.	
HNGMD48	974358	7788	215 - 400	17540	17540			S0428: 1	
HNGMC01	915310	7789	525 - 830	17541	17541	Gln-50 to Ser-61.		L0747: 3 and S0428: 1.	
HNGLY12	968919	7790	260 - 439	17542	17542	Thr-8 to Leu-13, Glu-22 to Asn-32.		S0428: 1 and L0758: 1.	
HNGLY08	948825	7791	81 - 425	17543	17543	Asn-80 to Ser-86, Phe-98 to Glu-105.		AR051: 17, AR050: 9, AR054: 7 S0428: 1	
HNGLS90	787446	7792	253 - 438	17544	17544	Ala-26 to Ala-31, Ser-57 to Arg-62.		S0428: 1, L0748: 1 and L0749: 1.	
HNGLR54	972812	7793	314 - 508	17545	17545	Pro-20 to Gln-25, Glu-55 to Ala-60.		S0428: 1	
HNGLO21	974067	7794	165 - 479	17546	17546	Pro-22 to Thr-28, Arg-35 to Pro-44.		S0428: 1	
HNGLL07	952236	7795	3 - 146	17547	17547			S0428: 1 and L0731: 1.	
HNGLK36	974584	7796	402 - 557	17548	17548	Gln-7 to Asp-21, Glu-27 to Gly-37.		S0428: 1	
HNGKY10	963459	7797	58 - 156	17549	17549			L0659: 1 and S0428: 1.	

HNGKS34	974368	7798	189 - 356	17550	Glu-36 to Pro-42.	S0428: 1	
HNGKQ80	860306	7799	90 - 377	17551	Val-20 to Glu-27.	S0428: 1 and L0589: 1.	
HNGKO32	860307	7800	118 - 414	17552	Pro-4 to Ala-9, Val-18 to Trp-30, His-48 to Leu-59, Phe-91 to Asn-99.	S0428: 1, L0748: 1 and L0749: 1.	
HNGKM74	942758	7801	2 - 988	17553	Phe-148 to Lys-155, Arg-162 to Glu-168, Arg-205 to Thr-213, Pro-235 to Leu-241.	AR051: 17, AR050: 17, AR061: 7, AR089: 3, AR054: 3 L0800: 1 and S0428: 1.	
HNGKL24	974360	7802	319 - 540	17554		S0428: 1	
HNGKJ02	918622	7803	375 - 647	17555	Gly-23 to Pro-28, Pro-31 to Asp-36, Ala-38 to Trp-59, His-71 to Gln-76, Lys-79 to Glu-86.	S0428: 1 and L0731: 1.	
HNGKH07	952210	7804	104 - 247	17556	Pro-2 to Thr-9.	L0655: 1 and S0428: 1.	
HNGKG03	922036	7805	120 - 323	17557		L0518: 1 and S0428: 1.	
HNGKD49	974364	7806	295 - 444	17558		S0428: 1	
HNGKC69	834922	7807	137 - 418	17559	Lys-29 to Thr-40, Arg-58 to Leu-65, Gln-67 to Arg-80, Ser-85 to Asp-92.	AR051: 14, AR054: 4, AR050: 1 S0428: 1	
HNGKC21	974581	7808	102 - 233	17560		S0428: 1	
HNGKC06	934309	7809	3 - 431	17561	Ser-21 to Lys-29, Gln-31 to His-37.	S0428: 1 and L0758: 1.	
HNGKA11	966117	7810	118 - 300	17562		L0787: 1, S0428: 1 and L0592: 1.	
HNGJV82	778921	7811	305 - 439	17563	Gly-14 to Arg-21, Gln-31 to Gln-37.	S0052: 1 and L0592: 1.	
HNGJR05	860357	7812	212 - 460	17564	Ser-16 to Asp-27, Arg-37 to Gly-44.	S0052: 1 and L0589: 1.	
HNGIQ96	796414	7813	37 - 282	17565	Thr-24 to Thr-29, Thr-42 to Lys-47, Ala-52 to Asn-64.	S0052: 1	
HNGIQ36	708121	7814	45 - 242	17566	Pro-46 to Gly-53.	S0052: 1	



HNGJQ08	959511	7815	26 - 103	17567			S0052: 1		
HNGJL47	720363	7816	3 - 404	17568	Arg-31 to Ser-37, Pro-39 to Pro-45.		L0771: 8, L0591: 2, L0788: 1 and S0052: 1.		
HNGJK64	746615	7817	22 - 147	17569	Ser-19 to Leu-26, Leu-30 to Gln-35.		S0052: 1		
HNGJK63	839947	7818	2 - 181	17570			S0052: 1 and L0758: 1.		
HNGJK40	711219	7819	138 - 380	17571	Thr-26 to Gly-31.		S0052: 1		
HNGJI40	711211	7820	2 - 385	17572	Ala-6 to Gly-11, Phe-21 to Leu-28, Cys-45 to Ile-53.		S0052: 1		
HNGJI04	615285	7821	3 - 164	17573	Gly-34 to Phe-41.		S0052: 1		
HNGJG75	942946	7822	90 - 662	17574	His-1 to Phe-14, Gln-18 to Arg-24, Ser-44 to His-49, Phe-121 to Asp-131, Ser-149 to Thr-174.		AR061: 4, AR089: 1 S0052: 1		
	951158	9652	469 - 251	19404					
HNGJG35	422897	7823	393 - 253	17575			S0052: 1		
HNGJE38	495689	7824	630 - 109	17576			S0052: 1 and L0758: 1.		
	860403	9653	95 - 379	19405	Pro-39 to Cys-52.				
HNGJE23	600366	7825	634 - 467	17577	Tyr-17 to Lys-22, Gly-46 to Thr-54.		S0052: 1		
	860413	9654	463 - 296	19406	Lys-6 to Leu-12.				
HNGJE08	973790	7826	392 - 547	17578	Pro-40 to Gln-50.		S0052: 1		
HNGJE01	973797	7827	392 - 529	17579			S0052: 1		
HNGJC68	888447	7828	103 - 348	17580			AR051: 86, AR050: 64, AR054: 54 S0052: 1		
HNGJC29	695660	7829	96 - 425	17581	Trp-1 to Arg-8, Gln-14 to Thr-21, Ser-39 to Gly-51, Arg-65 to Gln-72, Ser-80 to Gln-85, His-90 to Gly-96.		S0052: 1 and L0747: 1.		
HNGJB49	723004	7830	3 - 302	17582	His-7 to Gly-22, His-62 to Asn-71.		L0748: 5, S0052: 1 and L0749: 1.		

HNGIA75	888461	7831	95 - 256	17583	Thr-17 to Leu-26, Gly-47 to Gly-53.	AR051: 25, AR050: 16, AR054: 1 S0052: 1		
HNGIX71	760398	7832	3 - 293	17584	His-30 to Gln-37.	L0748: 2 and S0052: 1.		
HNGIW45	717698	7833	1 - 198	17585	Ser-46 to Lys-56.	S0052: 1		
HNGIS92	792748	7834	1 - 540	17586		S0052: 1 and L0439: 1.		
HNGIS70	757216	7835	373 - 621	17587	Ser-66 to Ser-73.	S0052: 1 and L0740: 1.		
HNGIS02	920221	7836	327 - 542	17588	Ser-15 to Lys-24.	L0769: 1 and S0052: 1.		
HNGIR10	964715	7837	317 - 496	17589	Pro-7 to Phe-12.	L0769: 3 and S0052: 1.		
HNGIQ78	772866	7838	112 - 324	17590	Asp-6 to Ser-20, Arg-46 to Phe-53, Pro-60 to Leu-67.	S0052: 1		
HNGIQ71	773431	9655	586 - 365	19407				
	495771	7839	487 - 176	17591	Ala-1 to Cys-7, Gln-21 to Gly-40, Pro-49 to Gly-54, Ser-72 to Trp-91.	S0052: 1		
HNGIP47	860506	9656	308 - 658	19408				
	720374	7840	247 - 450	17592	His-15 to Met-25.	S0052: 1 and L0589: 1.		
HNGIP27	860515	7841	210 - 476	17593		S0052: 1		
HNGIO64	487439	7842	231 - 401	17594		S0052: 1		
	927636	9657	396 - 280	19409	Ala-15 to Arg-22.			
HNGIO52	727196	7843	207 - 422	17595		S0052: 1 and L0756: 1.		
HNGIL94	793171	7844	123 - 326	17596	Pro-15 to Arg-22.	S0052: 1		
HNGIL84	781970	7845	50 - 340	17597		L0747: 2 and S0052: 1.		
HNGIL82	812699	7846	174 - 368	17598	Ile-3 to Trp-14, Glu-54 to Asn-65.	S0052: 1		
HNGIL51	725003	7847	1 - 249	17599	Gly-1 to Glu-8, Thr-37 to Arg-47, Pro-57 to Arg-62, Pro-78 to Thr-83.	S0052: 1	2p11.2	178640, 216900
HNGIL22	860525	7848	76 - 306	17600	Ala-1 to Thr-6.			
HNGIJ51	868068	7849	178 - 348	17601	Thr-9 to Cys-14, Lys-38 to Arg-45.	L0527: 1 and S0052: 1. L0752: 2 and S0052: 1.		
HNGHY44	973977	7850	245 - 424	17602	Asp-25 to Gly-32.	S0052: 1		

HNGHO94	793271	7851	1 - 219	17603	Asn-1 to His-10, Pro-53 to Ala-72.	S0052: 1		
HNGHM61	576221	7852	39 - 236	17604	Pro-4 to His-18, Pro-28 to Arg-39, Gln-53 to Gly-58.	S0052: 1		
HNGHL46	860541	7853	291 - 476	17605		S0052: 1		
HNGHJ01	916757	7854	1 - 204	17606	Gln-1 to Asp-9, Asp-19 to Gly-25, His-58 to Ala-65.	S0052: 1 and L0758: 1.		
HNGHG39	860554	7855	3 - 248	17607	His-1 to Met-8.	S0052: 1 and L0366: 1.		
HNGHD68	576315	7856	246 - 1	17608		S0052: 1		
HNGGV02	920377	7857	212 - 430	17609		S0052: 1		
HNGGT08	959649	7858	44 - 193	17610		S0052: 1 and L0748: 1.		
HNGGP91	576251	7859	1 - 360	17611		L0743: 2 and S0052: 1.		
HNGGP55	578450	7860	91 - 186	17612		S0052: 1		
HNGGL74	765644	7861	828 - 487	17613	Tyr-21 to Tyr-26, His-36 to Lys-44, Leu-70 to Gly-76.	AR050: 136, AR054: 117, AR051: 105 S0052: 1		
HNGGF86	860568	7862	247 - 426	17614	Thr-1 to His-11.	S0052: 1		
HNGGB58	738213	7863	16 - 156	17615		S0052: 1 and L0754: 1.		
HNGGB28	703315	7864	2 - 199	17616	Ala-1 to Ala-10, Pro-12 to Ser-19, Asp-31 to Gly-44, Pro-49 to Arg-66.	S0052: 1		
HNGFX89	506492	7865	202 - 468	17617	Asn-13 to Ala-19.	AR050: 19, AR051: 15, AR054: 8 S0052: 1		
	578679	9658	34 - 144	19410				
	578680	9659	529 - 413	19411				
HNGFX75	608695	7866	394 - 630	17618		S0052: 1		
HNGFU33	702584	7867	472 - 663	17619	Gly-2 to Phe-8, Pro-17 to Asn-22, Met-56 to Gly-62.	L0747: 3, L0803: 2, L0659: 2, L0666: 2, L0662: 1, L0546: 1, S0052: 1, L0750: 1, L0779: 1, L0752: 1 and L0758: 1.		
HNGFT02	920480	7868	212 - 319	17620		S0052: 1 and L0747: 1.		

HNGFR06	935821	7869	2 - 421	17621	Leu-41 to Glu-52.	S0052: 1, L0439: 1 and L0754: 1.		
HNGFP92	842276	7870	439 - 621	17622	Gly-1 to Asp-7, Ala-17 to Gly-22.	S0052: 1		
	889744	9660	140 - 442	19412	Thr-3 to Ala-33, Ala-44 to Cys-49, Phe-64 to Trp-71, Ala-84 to Arg-89, Ala-94 to Ser-101.			
HNGFN70	872950	7871	3 - 191	17623	Ser-10 to Asn-17, Gly-32 to Lys-44.	AR051: 41, AR050: 40, AR054: 33 S0052: 1		
HNGFM17	664280	7872	345 - 635	17624	Leu-11 to Glu-19, Gly-27 to Ala-36, Ser-45 to Ser-59.	S0052: 1 and L0748: 1.		
HNGFK34	703419	7873	1 - 309	17625	Thr-2 to Trp-9, Val-33 to Leu-38, Gly-43 to Cys-51.	L0518: 1 and S0052: 1.		
HNGFI11	967304	7874	1 - 285	17626	Glu-63 to Ser-68, Asp-75 to Pro-82.	L0517: 1 and S0052: 1.		
HNGFH90	789066	7875	45 - 317	17627	Gln-11 to Gln-16, Ser-24 to Arg-29, Ser-39 to Gly-45.	S0052: 1 and L0594: 1.		
HNGFH58	738240	7876	1 - 201	17628	Lys-30 to Met-35, Pro-49 to Gly-56, His-72 to Ser-77, Ala-82 to Gly-92.	L0748: 2 and S0052: 1.		
HNGFH30	823363	7877	2582 - 2280	17629	Lys-30 to Met-35, Pro-49 to Gly-56, His-72 to Ser-77, Ala-82 to Gly-92.	AR050: 17, AR054: 1 S0052: 1		
	824134	9661	227 - 649	19413	Lys-30 to Met-35, Pro-49 to Gly-56.			
	854048	9662	2 - 79	19414	Lys-1 to Leu-12.			
HNGFG10	968059	7878	800 - 1042	17630	Ser-64 to His-69.	L0747: 3, L0589: 2 and S0052: 1.		
HNGFF50	941480	7879	1 - 342	17631	Ala-3 to Thr-11, Ala-33 to His-43, Gly-67 to Leu-74.	S0052: 1		